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NEWS	1		Web Page for STN Seminar Schedule - N. America
NEWS	2	NOV 21	CAS patent coverage to include exemplified prophetic substances identified in English-, French-, German-, and Japanese-language basic patents from 2004-present
NEWS	3	NOV 26	MARPAT enhanced with FSORT command
NEWS	4	NOV 26	CHEMSAFE now available on STN Easy
NEWS	5	NOV 26	Two new SET commands increase convenience of STN searching
NEWS	6	DEC 01	ChemPort single article sales feature unavailable
NEWS	7	DEC 12	GBFULL now offers single source for full-text coverage of complete UK patent families
NEWS	8	DEC 17	Fifty-one pharmaceutical ingredients added to PS
NEWS	9	JAN 06	The retention policy for unread STNmail messages will change in 2009 for STN-Columbus and STN-Tokyo
NEWS	10	JAN 07	WPIDS, WPINDEX, and WPIX enhanced Japanese Patent Classification Data
NEWS	11	FEB 02	Simultaneous left and right truncation (SLART) added for CERAB, COMPUAB, ELCOM, and SOLIDSTATE
NEWS	12	FEB 02	GENBANK enhanced with SET PLURALS and SET SPELLING
NEWS	13	FEB 06	Patent sequence location (PSL) data added to USGENE
NEWS	14	FEB 10	COMPENDEX reloaded and enhanced
NEWS	15	FEB 11	WTEXTILES reloaded and enhanced
NEWS	16	FEB 19	New patent-examiner citations in 300,000 CA/CAplus patent records provide insights into related prior art
NEWS	17	FEB 19	Increase the precision of your patent queries -- use terms from the IPC Thesaurus, Version 2009.01
NEWS	18	FEB 23	Several formats for image display and print options discontinued in USPATFULL and USPAT2
NEWS	19	FEB 23	MEDLINE now offers more precise author group fields and 2009 MeSH terms
NEWS	20	FEB 23	TOXCENTER updates mirror those of MEDLINE - more precise author group fields and 2009 MeSH terms
NEWS	21	FEB 23	Three million new patent records blast AEROSPACE into STN patent clusters

NEWS EXPRESS JUNE 27 08 CURRENT WINDOWS VERSION IS V8.3,
AND CURRENT DISCOVER FILE IS DATED 23 JUNE 2008.

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NEWS LOGIN	Welcome Banner and News Items
NEWS IPC8	For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that specific topic.

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* * * * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 07:31:37 ON 24 FEB 2009

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FULL ESTIMATED COST	0.22	0.22

FILE 'REGISTRY' ENTERED AT 07:31:44 ON 24 FEB 2009
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STRUCTURE FILE UPDATES: 22 FEB 2009 HIGHEST RN 1110296-20-2
DICTIONARY FILE UPDATES: 22 FEB 2009 HIGHEST RN 1110296-20-2

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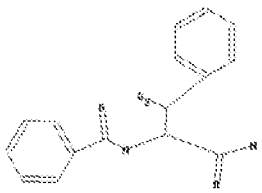
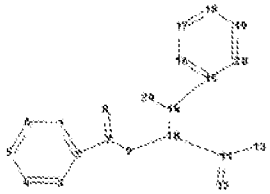
http://www.cas.org/support/stngen/stndoc/properties.html

=>
Uploading C:\Program Files\STNEXP\Queries\10581444.str





chain nodes :
7 8 9 10 11 12 13 14 24
ring nodes :
1 2 3 4 5 6 15 16 17 18 19 20
chain bonds :
2-7 7-8 7-9 9-10 10-11 10-14 11-12 11-13 14-15 14-24
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 15-16 15-20 16-17 17-18 18-19 19-20
exact/norm bonds :
7-8 7-9 9-10 11-12 11-13 14-24
exact bonds :
2-7 10-11 10-14 14-15
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6 15-16 15-20 16-17 17-18 18-19 19-20
isolated ring systems :
containing 1 : 15 :

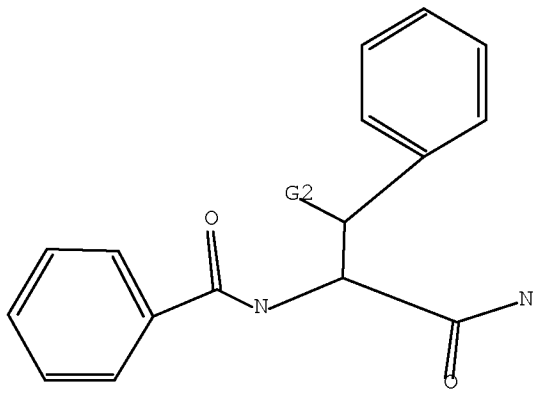
G1:Ak,H

G2:O,S,N

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:CLASS 10:CLASS
11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom
20:Atom 24:CLASS

L1 STRUCTURE UPLOADED

=> d L1
L1 HAS NO ANSWERS
L1 STR



G1 Ak,H
G2 O,S,N

Structure attributes must be viewed using STN Express query preparation.

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=> file caplus
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                       0.48       0.70

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FILE COVERS 1907 - 24 Feb 2009  VOL 150 ISS 9
FILE LAST UPDATED: 23 Feb 2009  (20090223/ED)

Caplus now includes complete International Patent Classification (IPC)
reclassification data for the third quarter of 2008.

CAS Information Use Policies apply and are available at:

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This file contains CAS Registry Numbers for easy and accurate
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=> s l1 SSS full
   REGISTRY INITIATED
Substance data SEARCH and crossover from CAS REGISTRY in progress...
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.




FULL SEARCH INITIATED 07:32:03 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -   241735 TO ITERATE

100.0% PROCESSED   241735 ITERATIONS                          301 ANSWERS
SEARCH TIME: 00.00.03

L2          301 SEA SSS FUL L1

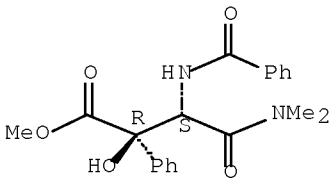


L3          25 L2

=> d ibib abs hitstr 1-
YOU HAVE REQUESTED DATA FROM 25 ANSWERS - CONTINUE? Y/(N):y
```

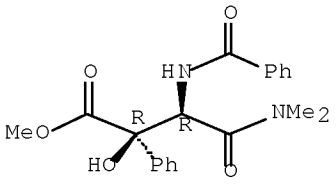
L3 ANSWER 1 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2008:1383604 CAPLUS Full-text
DOCUMENT NUMBER: 149:555108
TITLE: Catalytic enantioselective aldol addition reactions
AUTHOR(S): Carreira, Erick M.; Fettes, Alec; Marti, Christiane
CORPORATE SOURCE: Swiss Federal Institute of Technology (ETH-Z), Zurich, Switz.
SOURCE: Organic Reactions (Hoboken, NJ, United States) (2006), 67, No pp. given
CODEN: ORHNBA
URL: http://www3.interscience.wiley.com/cgi-bin/mrwhome/107610747/HOME
PUBLISHER: John Wiley & Sons, Inc.
DOCUMENT TYPE: Journal; General Review; (online computer file)
LANGUAGE: English
OTHER SOURCE(S): CASREACT 149:555108
AB A review of the article Catalytic enantioselective aldol addition reactions.
IT 126106-23-8P 126106-24-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(Catalytic Enantioselective Aldol Addition Reactions)
RN 126106-23-8 CAPLUS
CN Benzeneacetic acid, α-[1-(benzoylamino)-2-(dimethylamino)-2-oxoethyl]-α-hydroxy-, methyl ester, [R-(R*,S*)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 126106-24-9 CAPLUS
CN Benzeneacetic acid, α-[1-(benzoylamino)-2-(dimethylamino)-2-oxoethyl]-α-hydroxy-, methyl ester, [R-(R*,R*)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L3 ANSWER 2 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2007:934564 CAPLUS Full-text
DOCUMENT NUMBER: 147:277285

TITLE: Preparation of benzoylalanines as herbicides

INVENTOR(S): Witschel, Matthias; Zagar, Cyrill; Hupe, Eike; Kuehn, Toralf; Moberg, William Karl; Parra Rapado, Liliana; Stelzer, Frank; Vescovi, Andrea; Reinhard, Robert; Sievernich, Bernd; Grossmann, Klaus; Ehrhardt, Thomas

PATENT ASSIGNEE(S): Basf Aktiengesellschaft, Germany

SOURCE: PCT Int. Appl., 74pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

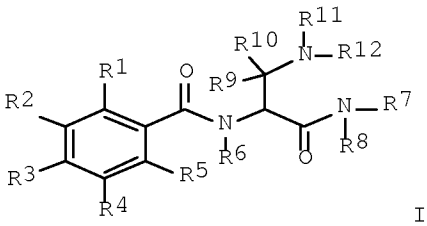
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007093539	A2	20070823	WO 2007-EP51158	20070207
WO 2007093539	A3	20071011		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA				
EP 1987015	A2	20081105	EP 2007-704414	20070207
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR				
US 20090036311	A1	20090205	US 2008-279351	20080814

PRIORITY APPLN. INFO.: EP 2006-110013 A 20060216
WO 2007-EP51158 W 20070207

OTHER SOURCE(S): MARPAT 147:277285

GI



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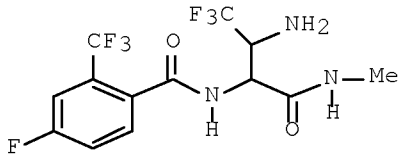
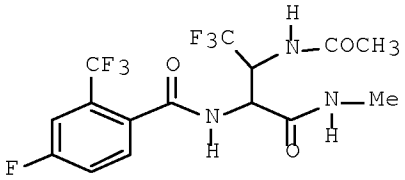


II



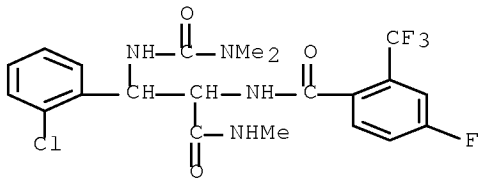
III

AB Title compds. I [R1 = halo, CN, alkyl, etc.; R2, R3, R4, R5 = H, halo, CN, etc.; R6, R7 = H, OH, alkoxy; R8 = alkyl, cyanoalkyl, haloalkyl; R9 = H, alkyl; R10 = H, alkyl, alkenyl, etc.] were prepared For example, CH3COCl/Et3N/DCM mediated acylation of amine II afforded benzoylalanine III in 37% yield. Compds. I are claimed to be useful as agrochem. herbicides.

IT 946611-29-6P 946611-30-9P
RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of benzoylalanines as herbicides)

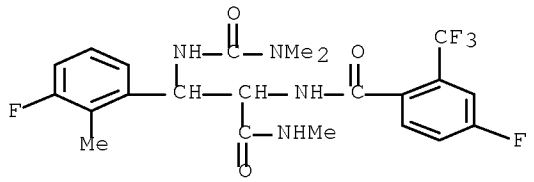
RN 946611-29-6 CAPLUS

CN Benzenepropanamide, 2-chloro-β-[[(dimethylamino)carbonyl]amino]-α-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-N-methyl- (CA INDEX NAME)



RN 946611-30-9 CAPLUS

CN Benzenepropanamide, β-[[(dimethylamino)carbonyl]amino]-3-fluoro-α-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-N,2-dimethyl- (CA INDEX NAME)



L3 ANSWER 3 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2007:719538 CAPLUS Full-text

DOCUMENT NUMBER: 147:322879

TITLE: Unexpected cleavage of the N-N bond in the reactions of 3-pyrazolidinone-1-azomethine imines with HCN

AUTHOR(S): Pezdirc, Lidija; Groselj, Uros; Meden, Anton; Stanovnik, Branko; Svete, Jurij

CORPORATE SOURCE: Faculty of Chemistry and Chemical Technology, University of Ljubljana, Ljubljana, 1000, Slovenia

SOURCE: Tetrahedron Letters (2007), 48(30), 5205-5208
CODEN: TELEAY; ISSN: 0040-4039

PUBLISHER: Elsevier Ltd.

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 147:322879

AB Treatment of (1Z,4R*,5R*)-1-arylmethylidene-4-benzamido-5- phenylpyrazolidin-3-one 1-azomethine imines ((1Z,4R*,5R*)-C3N2H2{(:NArH)-1}{(:O)-3}{(NHBz)-4}{Ph-5} (4: Ar = Ph (a), 4-(MeO)C6H4 (b), 3,4,5-(MeO)3C6H2 (c), 2,6-Cl2C6H3 (d), 2,4,6-Me3C6H2 (e))) with KCN in the presence of HOAc resulted in addition of HCN to the exocyclic C:N double bond followed by β-eliminative N-N single bond cleavage (ring opening) to give the N-[(1R*,2R*)-3-amino-2-benzamido-3-oxo-1-phenylpropyl]benzimidoyl cyanides ((1R*,2R*)-ArC(CN):NCHPhCH(NHBz)C(:O)NH2 (6: Ar = Ph (a, 85% yield), 4-(MeO)C6H4 (b, 35%), 3,4,5-(MeO)3C6H2 (c, 64%), 2,6-Cl2C6H3 (d, 28%))). Reaction of dipole (1Z,4R*,5R*)-1-arylmethylidene-4-benzamido-5- phenylpyrazolidin-3-one 1-azomethine 4e with HCN furnished stable intermediate, (1'S*,4R*,5R*)-4-benzamido-1-[cyano(mesityl)methyl]-5- phenylpyrazolidin-3-one (5e), in 76% yield. The structure of compound 6c was determined by x-ray diffraction.

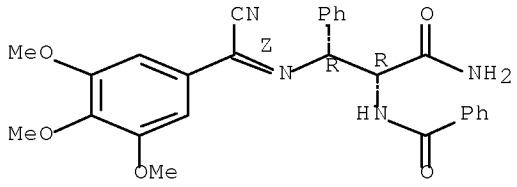
IT 947520-19-6P

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation) (crystal structure; preparation of cyanomesitylmethylpyrazolidinone and aminooxopropylbenzimidoyl cyanides via addition of HCN to pyrazolidinoneazomethine imines and N-N bond cleavage)

RN 947520-19-6 CAPLUS

CN Benzenepropanamide, α-(benzoylamino)-β-[(Z)-(cyano(3,4,5-trimethoxyphenyl)methylene)amino]-, (αR,βR)-rel- (CA INDEX NAME)

Relative stereochemistry.
Double bond geometry as shown.



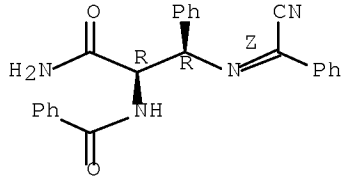
IT 947520-15-2P 947520-17-4P 947520-21-0P

RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of cyanomesitylmethylpyrazolidinone and aminooxopropylbenzimidoyl cyanides via addition of HCN to pyrazolidinoneazomethine imines and N-N bond cleavage)

RN 947520-15-2 CAPLUS

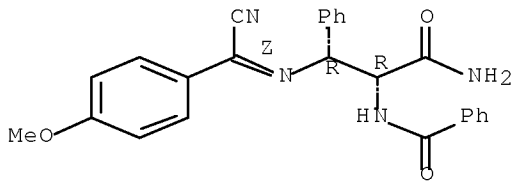
CN Benzenepropanamide, α-(benzoylamino)-β-[(Z)-(cyanophenylmethylene)amino]-, (αR,βR)-rel- (CA INDEX NAME)

Relative stereochemistry.
Double bond geometry as shown.



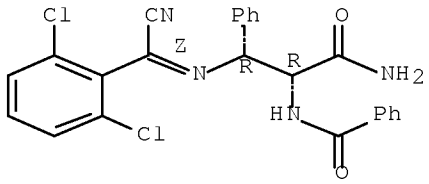
RN 947520-17-4 CAPLUS
CN Benzenepropanamide, α-(benzoylamino)-β-[(Z)-(cyano(4-methoxyphenyl)methylene)amino]-, (αR,βR)-rel- (CA INDEX NAME)

Relative stereochemistry.
Double bond geometry as shown.



RN 947520-21-0 CAPLUS
CN Benzenepropanamide, α-(benzoylamino)-β-[(Z)-(cyano(2,6-dichlorophenyl)methylene)amino]-, (αR,βR)-rel- (CA INDEX NAME)

Relative stereochemistry.
Double bond geometry as shown.

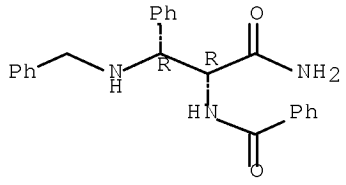


REFERENCE COUNT: 27 THERE ARE 27 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 4 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2006:358951 CAPLUS Full-text
Correction of: 2005:1110266
DOCUMENT NUMBER: 145:356107
Correction of: 143:346554
TITLE: Synthesis of amides with retention of the functional group
AUTHOR(S): Li, W.-R.
CORPORATE SOURCE: Germany
SOURCE: Science of Synthesis (2005), 21, 179-257
CODEN: SSCYJ9
PUBLISHER: Georg Thieme Verlag
DOCUMENT TYPE: Journal; General Review
LANGUAGE: English
AB A review of the synthesis of amides with focus on processes that retain functional groups.
IT 243842-77-5P 243842-78-6P 243842-79-7P
243842-81-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of amides)

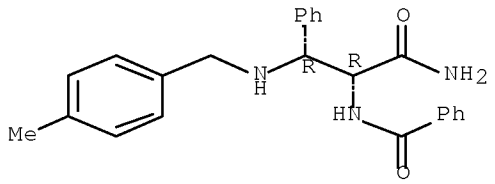
RN 243842-77-5 CAPLUS
CN Benzenepropanamide, α-(benzoylamino)-β-[(phenylmethyl)amino]-, (αR,βR)-rel- (CA INDEX NAME)

Relative stereochemistry.



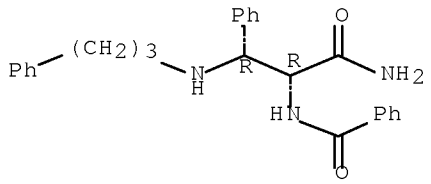
RN 243842-78-6 CAPLUS
CN Benzenepropanamide, α-(benzoylamino)-β-[[(4-methylphenyl)methyl]amino]-, (αR,βR)-rel- (CA INDEX NAME)

Relative stereochemistry.



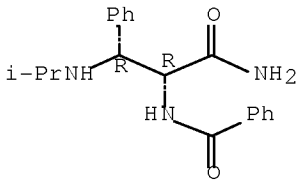
RN 243842-79-7 CAPLUS
CN Benzenepropanamide, α-(benzoylamino)-β-[(3-phenylpropyl)amino]-, (αR,βR)-rel- (CA INDEX NAME)

Relative stereochemistry.



RN 243842-81-1 CAPLUS
CN Benzenepropanamide, α-(benzoylamino)-β-[(1-methylethyl)amino]-, (αR,βR)-rel- (CA INDEX NAME)

Relative stereochemistry.



L3 ANSWER 5 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2005:588878 CAPLUS Full-text
DOCUMENT NUMBER: 143:115791
TITLE: Preparation of substituted N-benzoylphenylalaninamides as herbicides
INVENTOR(S): Witschel, Matthias; Puhl, Michael; Hamprecht, Gerhard; Parra Rapado, Liliana; Misslitz, Ulf; Zagar, Cyrill; Plath, Peter; Reinhard, Robert; Sievernich, Bernd; Liebl, Rex
PATENT ASSIGNEE(S): BASF Aktiengesellschaft, Germany
SOURCE: PCT Int. Appl., 117 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005061443	A2	20050707	WO 2004-EP14392	20041217
WO 2005061443	A3	20051222		
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AU 2004303492	A1	20050707	AU 2004-303492	20041217
CA 2548442	A1	20050707	CA 2004-2548442	20041217
EP 1697309	A2	20060906	EP 2004-803999	20041217
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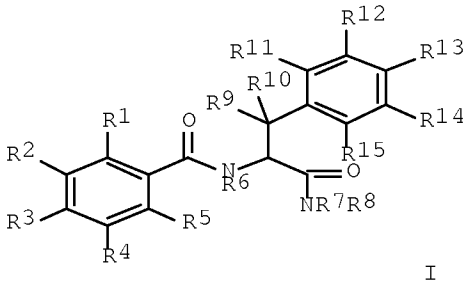
BR 2004017780	A	20070320	BR 2004-17780	20041217
JP 2007534648	T	20071129	JP 2006-544353	20041217
MX 2006005989	A	20060823	MX 2006-5989	20060526
US 20070142230	A1	20070621	US 2006-581444	20060602
KR 2006123344	A	20061201	KR 2006-711990	20060616
IN 2006CN02637	A	20070608	IN 2006-CN2637	20060719

PRIORITY APPLN. INFO.: DE 2003-10360395 A 20031219
WO 2004-EP14392 W 20041217

OTHER SOURCE(S): MARPAT 143:115791
GI



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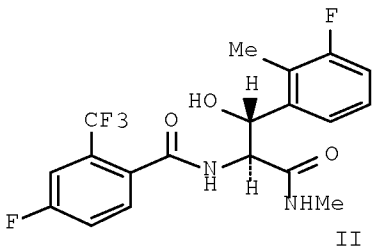

II

AB Title compds. I [R1 = CN, halogen, NO2, CO2H, Ph, alkyl, halogenalkyl, halogenalkoxy, alkoxycarbonyl, halogenalkylthio; R2, R3, R4, R5 = H, halogen, CN, NO2, NH2, alkyl, halogenalkyl, alkoxy, halogenalkoxy, alkylamino, alkylthio, alkoxycarbonyl, di(alkyl)amino; R6, R7 = H, OH, alkoxy; R8 = alkyl, cyanoalkyl, halogenalkyl; R9 = OR16, SR17, NR18R19; R10 = H, alkyl; R11, R12 = H, CN, halogen, OH, NO2, (substituted) alkyl, alkoxy, alkenyl, alkoxycarbonyl, alkylthio, PhCH2O containing halogen or alkyl substitutions in Ph ring; (substituted) amino, Ph, heterocyclyl, etc.; R13, R14, R15 = H, halogen, CN, NO2, OH, OCH2Ph, (substituted) alkyl, alkoxy; R16, R17, R18 = H, CHO, (substituted) alkyl, trialkylsilyl, cycloalkyl, alkenyl alkynyl, acyl, carbamoyl, sulfonylaminocarbonyl, aminothiocarbonyl, imino, sulfonyl, etc.; R19 = H, (substituted) alkyl, alkenyl, alkynyl, Ph, heterocyclyl, etc.], and their agriculturally useful salts thereof, were prepared for controlling undesired plants. For example, synthesized title compound II possessed very good herbicidal activity against Amaranthus retroflexus.

IT 857058-66-3P 857058-67-4P 857058-68-5P
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(ester) 857058-73-2P 857058-74-3P 857058-75-4P
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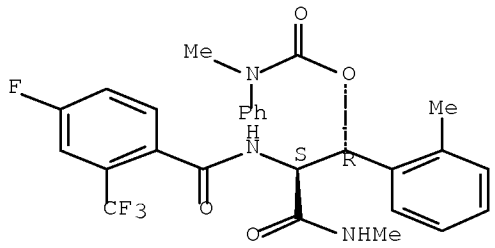
857061-06-4P
RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of substituted N-benzoylphenylalaninamides as herbicides)

RN 857058-66-3 CAPLUS

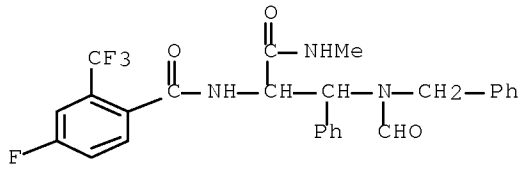
CN Benzenepropanamide, α-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-N,2-dimethyl-β-[[(methylphenylamino)carbonyl]oxy]-,

(αS,βR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

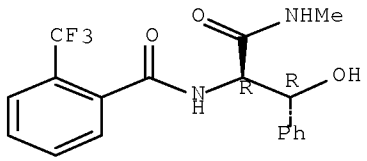


RN 857058-67-4 CAPLUS
CN Benzenepropanamide, α-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-
β-[formyl(phenylmethyl)amino]-N-methyl- (CA INDEX NAME)



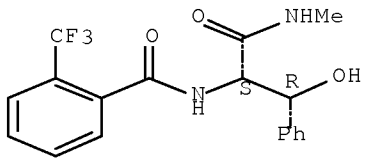
RN 857058-68-5 CAPLUS
CN Benzenepropanamide, β-hydroxy-N-methyl-α-[[2-
(trifluoromethyl)benzoyl]amino]-, (αR,βR)-rel- (CA INDEX NAME)

Relative stereochemistry.



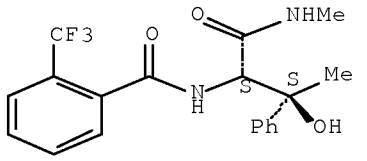
RN 857058-69-6 CAPLUS
CN Benzenepropanamide, β-hydroxy-N-methyl-α-[[2-
(trifluoromethyl)benzoyl]amino]-, (αR,βS)-rel- (CA INDEX NAME)

Relative stereochemistry.



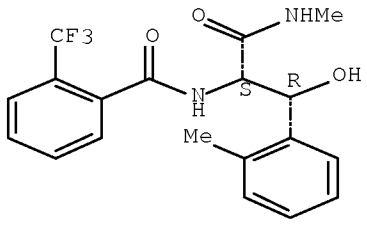
RN 857058-70-9 CAPLUS
CN Benzenepropanamide, β-hydroxy-N,β-dimethyl-α-[[2-(trifluoromethyl)benzoyl]amino]-, (αR,βR)-rel- (CA INDEX NAME)

Relative stereochemistry.



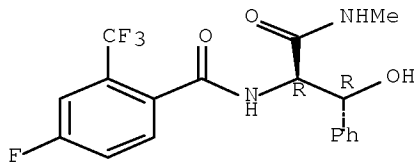
RN 857058-71-0 CAPLUS
CN Benzenepropanamide, β-hydroxy-N,2-dimethyl-α-[[2-(trifluoromethyl)benzoyl]amino]-, (αR,βS)-rel- (CA INDEX NAME)

Relative stereochemistry.



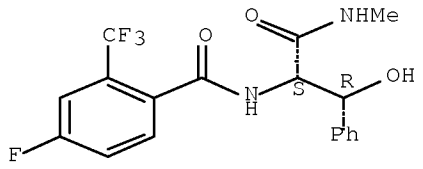
RN 857058-72-1 CAPLUS
CN Benzenepropanamide, α-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-β-hydroxy-N-methyl-, (αR,βR)-rel- (CA INDEX NAME)

Relative stereochemistry.



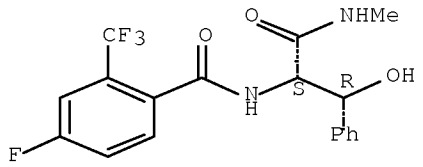
RN 857058-73-2 CAPLUS
CN Benzenepropanamide, α-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-β-hydroxy-N-methyl-, (αR,βS)-rel- (CA INDEX NAME)

Relative stereochemistry.



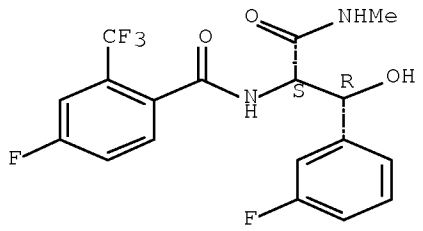
RN 857058-73-2 CAPLUS
CN Benzenepropanamide, α-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-β-hydroxy-N-methyl-, (αR,βS)-rel- (CA INDEX NAME)

Relative stereochemistry.



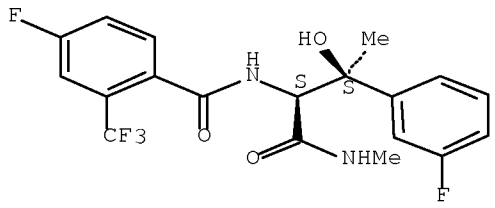
RN 857058-74-3 CAPLUS
CN Benzenepropanamide, 3-fluoro-α-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-β-hydroxy-N-methyl-, (αS,βR)- (CA INDEX NAME)

Absolute stereochemistry.



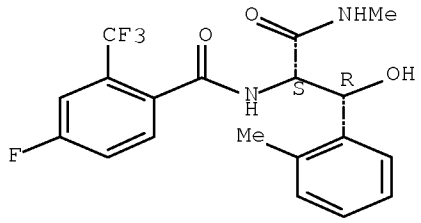
RN 857058-75-4 CAPLUS
CN Benzenepropanamide, 3-fluoro-α-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-β-hydroxy-N,β-dimethyl-, (αR,βR)-rel- (CA INDEX NAME)

Relative stereochemistry.



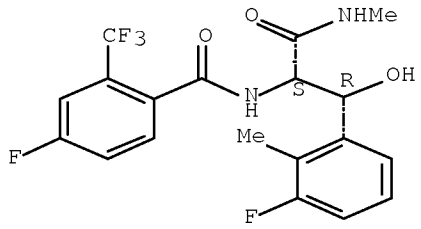
RN 857058-76-5 CAPLUS
CN Benzenepropanamide, α-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-β-hydroxy-N,2-dimethyl-, (αS,βR)- (CA INDEX NAME)

Absolute stereochemistry.



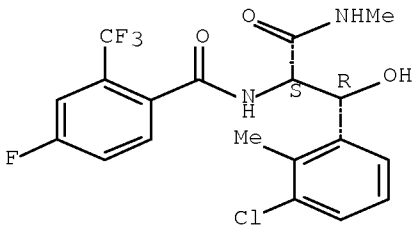
RN 857058-77-6 CAPLUS
CN Benzenepropanamide, 3-fluoro-α-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-β-hydroxy-N,2-dimethyl-, (αS,βR)- (CA INDEX NAME)

Absolute stereochemistry.



RN 857058-78-7 CAPLUS
CN Benzenepropanamide, 3-chloro-α-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-β-hydroxy-N,2-dimethyl-, (αS,βR)- (CA INDEX NAME)

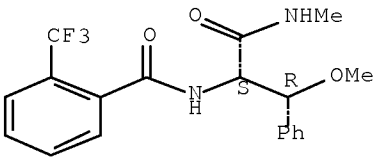
Absolute stereochemistry.



RN 857058-79-8 CAPLUS

CN Benzenepropanamide, β-methoxy-N-methyl-α-[[2-(trifluoromethyl)benzoyl]amino]-, (αR,βS)-rel- (CA INDEX NAME)

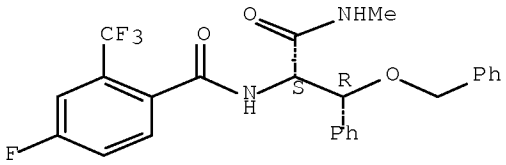
Relative stereochemistry.



RN 857058-80-1 CAPLUS

CN Benzenepropanamide, α-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-N-methyl-β-(phenylmethoxy)-, (αR,βS)-rel- (CA INDEX NAME)

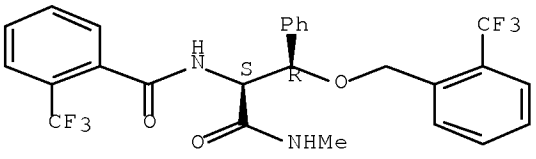
Relative stereochemistry.



RN 857058-81-2 CAPLUS

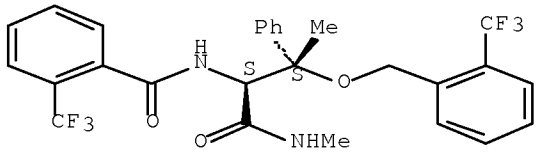
CN Benzenepropanamide, N-methyl-α-[[2-(trifluoromethyl)benzoyl]amino]-β-[[2-(trifluoromethyl)phenyl]methoxy]-, (αR,βS)-rel- (CA INDEX NAME)

Relative stereochemistry.



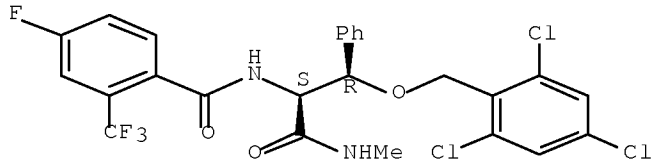
RN 857058-82-3 CAPLUS
CN Benzenepropanamide, N,β-dimethyl-α-[[2-(trifluoromethyl)benzoyl]amino]-β-[[2-(trifluoromethyl)phenyl]methoxy]-, (αR,βR)-rel- (CA INDEX NAME)

Relative stereochemistry.



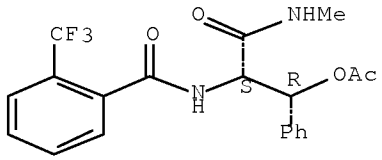
RN 857058-83-4 CAPLUS
CN Benzenepropanamide, α-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-N-methyl-β-[(2,4,6-trichlorophenyl)methoxy]-, (αR,βS)-rel- (CA INDEX NAME)

Relative stereochemistry.



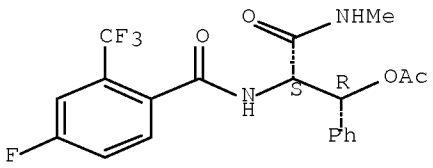
RN 857058-84-5 CAPLUS
CN Benzenepropanamide, β-(acetyloxy)-N-methyl-α-[[2-(trifluoromethyl)benzoyl]amino]-, (αR,βS)-rel- (CA INDEX NAME)

Relative stereochemistry.



RN 857058-85-6 CAPLUS
CN Benzenepropanamide, β-(acetyloxy)-α-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-N-methyl-, (αR,βS)-rel- (CA INDEX NAME)

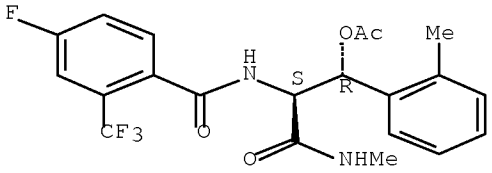
Relative stereochemistry.



RN 857058-86-7 CAPLUS

CN Benzenepropanamide, β-(acetyloxy)-α-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-N,2-dimethyl-, (αS,βR)- (CA INDEX NAME)

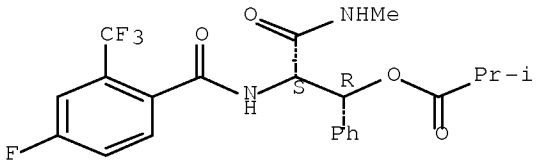
Absolute stereochemistry.



RN 857058-87-8 CAPLUS

CN Propanoic acid, 2-methyl-, (1R,2S)-2-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-3-(methylamino)-3-oxo-1-phenylpropyl ester, rel- (CA INDEX NAME)

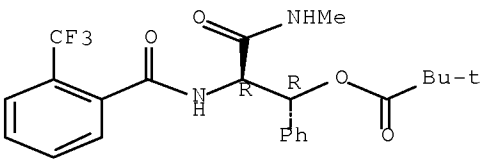
Relative stereochemistry.



RN 857058-88-9 CAPLUS

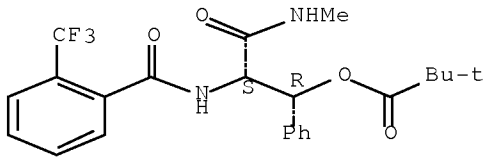
CN Propanoic acid, 2,2-dimethyl-, (1R,2R)-3-(methylamino)-3-oxo-1-phenyl-2-[[2-(trifluoromethyl)benzoyl]amino]propyl ester, rel- (CA INDEX NAME)

Relative stereochemistry.



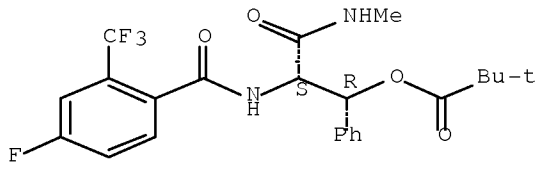
RN 857058-89-0 CAPLUS
CN Propanoic acid, 2,2-dimethyl-, (1R,2S)-3-(methylamino)-3-oxo-1-phenyl-2-[[2-(trifluoromethyl)benzoyl]amino]propyl ester, rel- (CA INDEX NAME)

Relative stereochemistry.



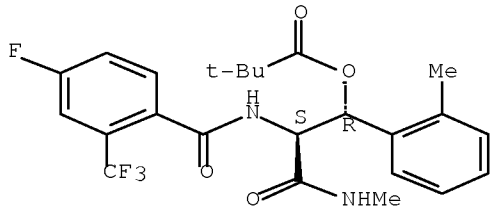
RN 857058-90-3 CAPLUS
CN Propanoic acid, 2,2-dimethyl-, (1R,2S)-2-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-3-(methylamino)-3-oxo-1-phenylpropyl ester, rel- (CA INDEX NAME)

Relative stereochemistry.



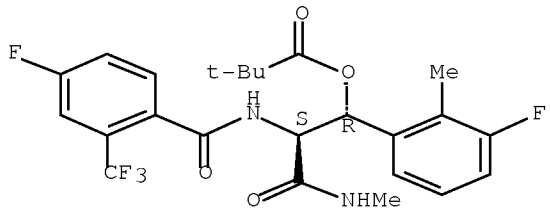
RN 857058-91-4 CAPLUS
CN Propanoic acid, 2,2-dimethyl-, (1R,2S)-2-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-3-(methylamino)-1-(2-methylphenyl)-3-oxopropyl ester (CA INDEX NAME)

Absolute stereochemistry.



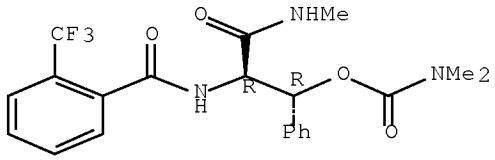
RN 857058-92-5 CAPLUS
CN Propanoic acid, 2,2-dimethyl-, (1R,2S)-1-(3-fluoro-2-methylphenyl)-2-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-3-(methylamino)-3-oxopropyl ester (CA INDEX NAME)

Absolute stereochemistry.



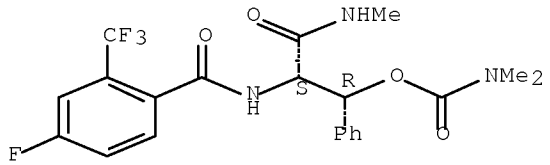
RN 857058-93-6 CAPLUS
CN Carbamic acid, dimethyl-, (1R,2R)-3-(methylamino)-3-oxo-1-phenyl-2-[[2-(trifluoromethyl)benzoyl]amino]propyl ester, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



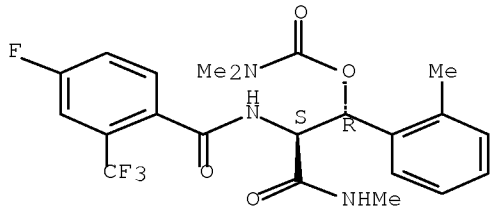
RN 857058-94-7 CAPLUS
CN Carbamic acid, dimethyl-, (1R,2S)-2-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-3-(methylamino)-3-oxo-1-phenylpropyl ester, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



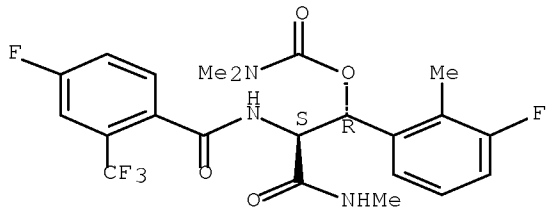
RN 857058-95-8 CAPLUS
CN Carbamic acid, dimethyl-, (1R,2S)-2-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-3-(methylamino)-1-(2-methylphenyl)-3-oxopropyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



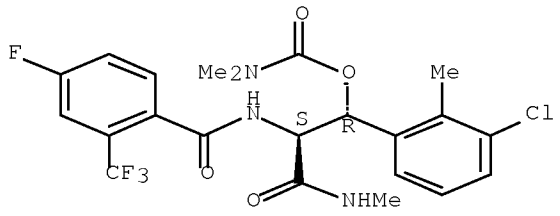
RN 857058-96-9 CAPLUS
CN Carbamic acid, dimethyl-, (1R,2S)-1-(3-fluoro-2-methylphenyl)-2-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-3-(methylamino)-3-oxopropyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



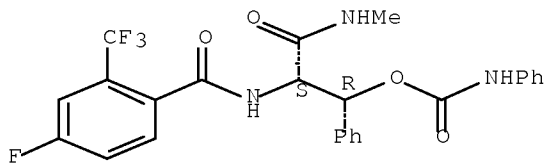
RN 857058-97-0 CAPLUS
CN Carbamic acid, dimethyl-, (1R,2S)-1-(3-chloro-2-methylphenyl)-2-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-3-(methylamino)-3-oxopropyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 857058-98-1 CAPLUS
CN Benzenepropanamide, α-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-N-methyl-β-[[(phenylamino)carbonyl]oxy]-, (αR,βS)-rel- (CA INDEX NAME)

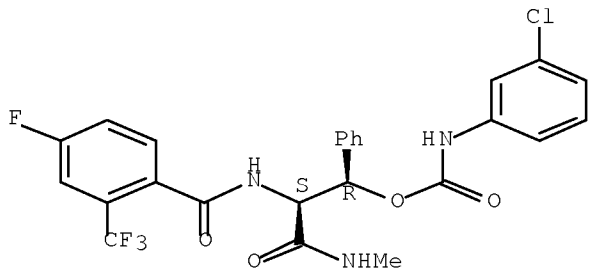
Relative stereochemistry.



RN 857058-99-2 CAPLUS
CN Carbamic acid, (3-chlorophenyl)-, (1R,2S)-2-[[4-fluoro-2-

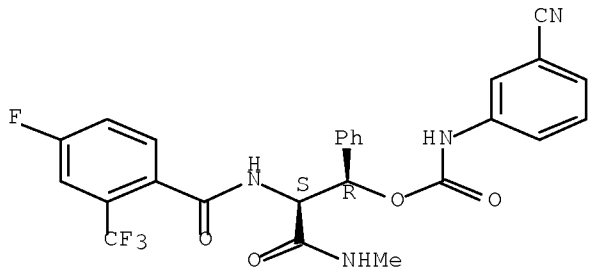
(trifluoromethyl)benzoyl]amino]-3-(methylamino)-3-oxo-1-phenylpropyl ester, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



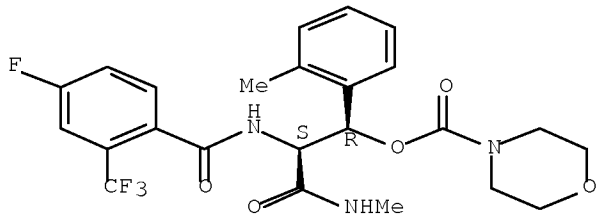
RN 857059-00-8 CAPLUS
CN Carbamic acid, (3-cyanophenyl)-, (1R,2S)-2-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-3-(methylamino)-3-oxo-1-phenylpropyl ester, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 857059-01-9 CAPLUS
CN 4-Morpholinecarboxylic acid, (1R,2S)-2-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-3-(methylamino)-1-(2-methylphenyl)-3-oxopropyl ester (CA INDEX NAME)

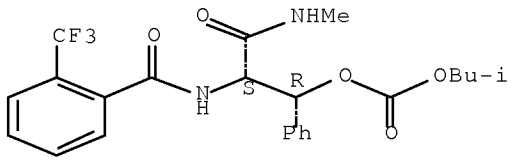
Absolute stereochemistry.



RN 857059-02-0 CAPLUS

CN Carbonic acid, (1R,2S)-3-(methylamino)-3-oxo-1-phenyl-2-[[2-(trifluoromethyl)benzoyl]amino]propyl 2-methylpropyl ester, rel- (9CI) (CA INDEX NAME)

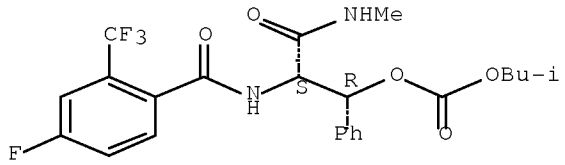
Relative stereochemistry.



RN 857059-03-1 CAPLUS

CN Carbonic acid, (1R,2S)-2-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-3-(methylamino)-3-oxo-1-phenylpropyl 2-methylpropyl ester, rel- (CA INDEX NAME)

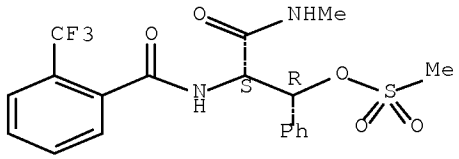
Relative stereochemistry.



RN 857059-04-2 CAPLUS

CN Benzenepropanamide, N-methyl-β-[(methylsulfonyl)oxy]-α-[[2-(trifluoromethyl)benzoyl]amino]-, (αR,βS)-rel- (CA INDEX NAME)

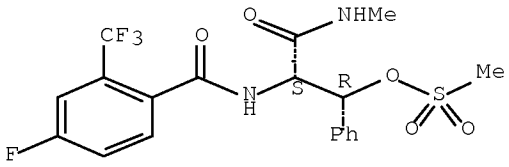
Relative stereochemistry.



RN 857059-05-3 CAPLUS

CN Benzenepropanamide, α-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-N-methyl-β-[(methylsulfonyl)oxy]-, (αR,βS)-rel- (CA INDEX NAME)

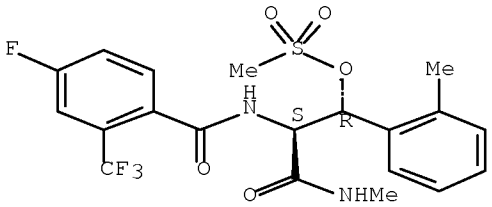
Relative stereochemistry.



RN 857059-06-4 CAPLUS

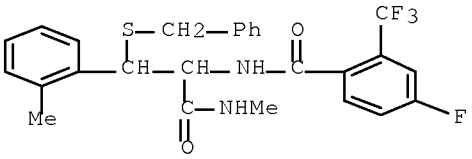
CN Benzenepropanamide, α-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-N,2-dimethyl-β-[(methylsulfonyl)oxy]-, (αS,βR)- (CA INDEX NAME)

Absolute stereochemistry.



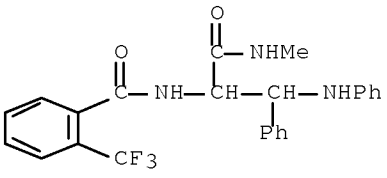
RN 857059-07-5 CAPLUS

CN Benzenepropanamide, α-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-N,2-dimethyl-β-[(phenylmethyl)thio]- (CA INDEX NAME)



RN 857059-08-6 CAPLUS

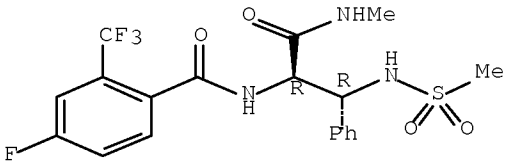
CN Benzenepropanamide, N-methyl-β-(phenylamino)-α-[[2-(trifluoromethyl)benzoyl]amino]- (CA INDEX NAME)



RN 857059-09-7 CAPLUS

CN Benzenepropanamide, α-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-N-methyl-β-[(methylsulfonyl)amino]-, (αR,βR)-rel- (CA INDEX NAME)

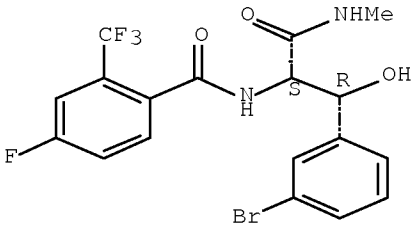
Relative stereochemistry.



RN 857059-10-0 CAPLUS

CN Benzenepropanamide, 3-bromo-α-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-β-hydroxy-N-methyl-, (αS,βR)- (CA INDEX NAME)

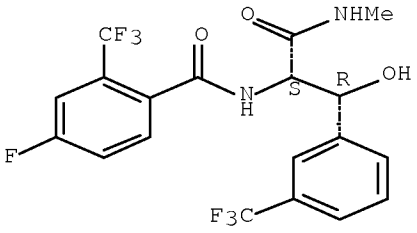
Absolute stereochemistry.



RN 857059-11-1 CAPLUS

CN Benzenepropanamide, α-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-β-hydroxy-N-methyl-3-(trifluoromethyl)-, (αR,βS)-rel- (CA INDEX NAME)

Relative stereochemistry.

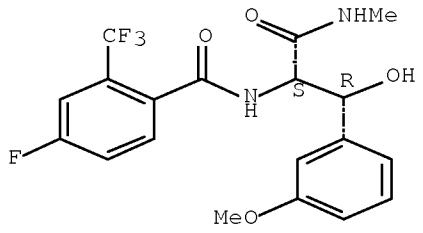


RN 857059-12-2 CAPLUS

CN Benzenepropanamide, α-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-

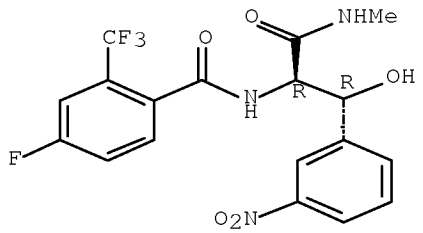
β-hydroxy-3-methoxy-N-methyl-, (αS,βR)- (CA INDEX NAME)

Absolute stereochemistry.



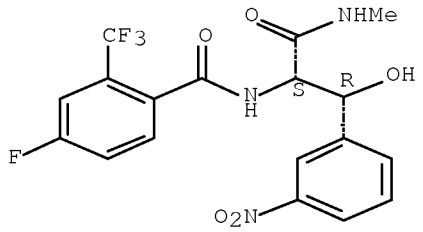
RN 857059-13-3 CAPLUS
CN Benzenepropanamide, α-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-
β-hydroxy-N-methyl-3-nitro-, (αR,βR)-rel- (CA INDEX NAME)

Relative stereochemistry.



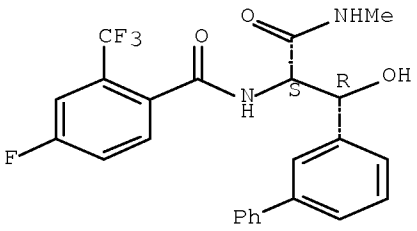
RN 857059-14-4 CAPLUS
CN Benzenepropanamide, α-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-
β-hydroxy-N-methyl-3-nitro-, (αR,βS)-rel- (CA INDEX NAME)

Relative stereochemistry.



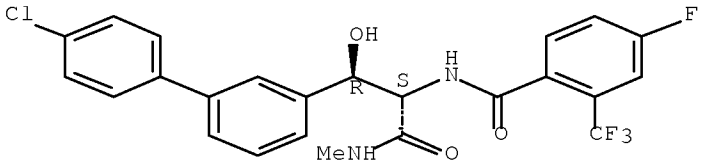
RN 857059-15-5 CAPLUS
CN [1,1'-Biphenyl]-3-propanamide, α-[[4-fluoro-2-
(trifluoromethyl)benzoyl]amino]-β-hydroxy-N-methyl-,
(αR,βS)-rel- (CA INDEX NAME)

Relative stereochemistry.



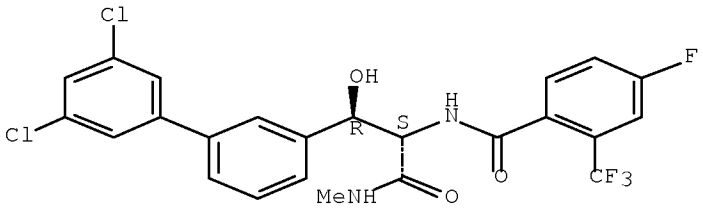
RN 857059-16-6 CAPLUS
CN [1,1'-Biphenyl]-3-propanamide, 4'-chloro-α-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-β-hydroxy-N-methyl-, (αR,βS)-rel- (CA INDEX NAME)

Relative stereochemistry.



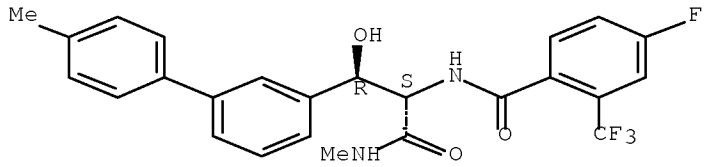
RN 857059-17-7 CAPLUS
CN [1,1'-Biphenyl]-3-propanamide, 3',5'-dichloro-α-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-β-hydroxy-N-methyl-, (αR,βS)-rel- (CA INDEX NAME)

Relative stereochemistry.



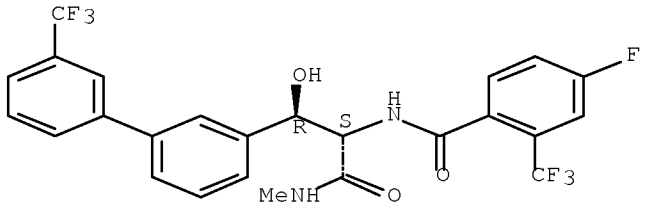
RN 857059-18-8 CAPLUS
CN [1,1'-Biphenyl]-3-propanamide, α-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-β-hydroxy-N,4'-dimethyl-, (αR,βS)-rel- (CA INDEX NAME)

Relative stereochemistry.



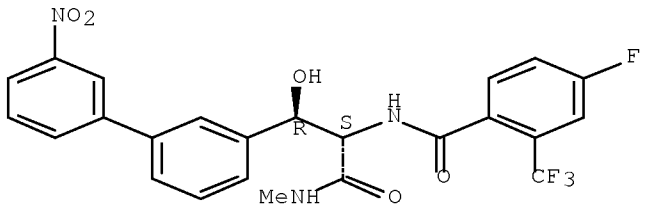
RN 857059-19-9 CAPLUS
CN [1,1'-Biphenyl]-3-propanamide, α-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-β-hydroxy-N-methyl-3'-(trifluoromethyl)-, (αR,βS)-rel- (CA INDEX NAME)

Relative stereochemistry.



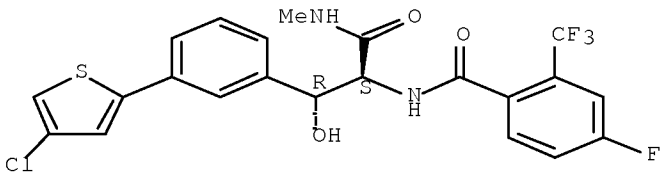
RN 857059-20-2 CAPLUS
CN [1,1'-Biphenyl]-3-propanamide, α-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-β-hydroxy-N-methyl-3'-nitro-, (αR,βS)-rel- (CA INDEX NAME)

Relative stereochemistry.



RN 857059-21-3 CAPLUS
CN Benzenepropanamide, 3-(4-chloro-2-thienyl)-α-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-β-hydroxy-N-methyl-, (αR,βS)-rel- (CA INDEX NAME)

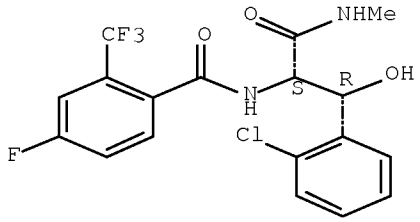
Relative stereochemistry.



RN 857059-22-4 CAPLUS

CN Benzenepropanamide, 2-chloro-α-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-β-hydroxy-N-methyl-, (αR,βS)-rel- (CA INDEX NAME)

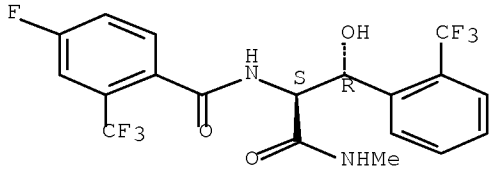
Relative stereochemistry.



RN 857059-23-5 CAPLUS

CN Benzenepropanamide, α-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-β-hydroxy-N-methyl-2-(trifluoromethyl)-, (αR,βS)-rel- (CA INDEX NAME)

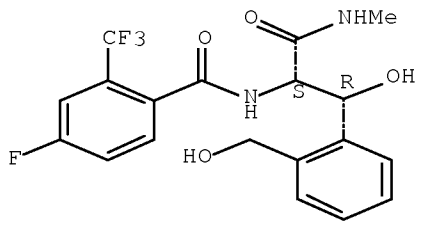
Relative stereochemistry.



RN 857059-24-6 CAPLUS

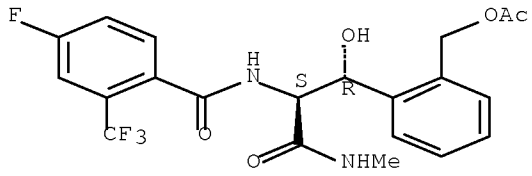
CN Benzenepropanamide, α-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-β-hydroxy-2-(hydroxymethyl)-N-methyl-, (αS,βR)- (CA INDEX NAME)

Absolute stereochemistry.



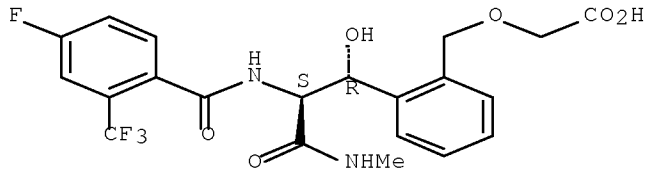
RN 857059-25-7 CAPLUS
CN Benzenepropanamide, 2-[(acetyloxy)methyl]-α-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-β-hydroxy-N-methyl-, (αS,βR)- (CA INDEX NAME)

Absolute stereochemistry.



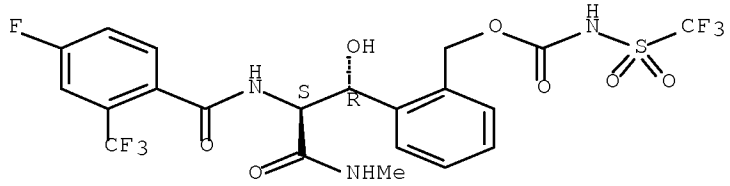
RN 857059-26-8 CAPLUS
CN Acetic acid, 2-[[2-[(1R,2S)-2-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-1-hydroxy-3-(methylamino)-3-oxopropyl]phenyl]methoxy]- (CA INDEX NAME)

Absolute stereochemistry.



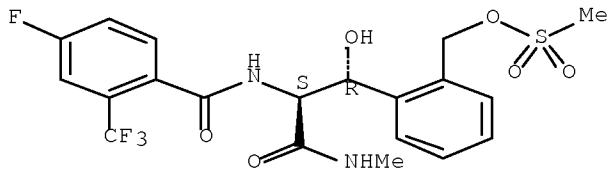
RN 857059-27-9 CAPLUS
CN Carbamic acid, [(trifluoromethyl)sulfonyl]-, [2-[(1R,2S)-2-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-1-hydroxy-3-(methylamino)-3-oxopropyl]phenyl]methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



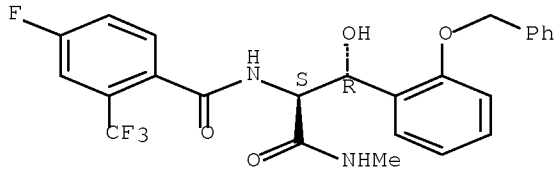
RN 857059-28-0 CAPLUS
CN Benzenepropanamide, α-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-β-hydroxy-N-methyl-2-[[(methylsulfonyl)oxy]methyl]-, (αS,βR)- (CA INDEX NAME)

Absolute stereochemistry.



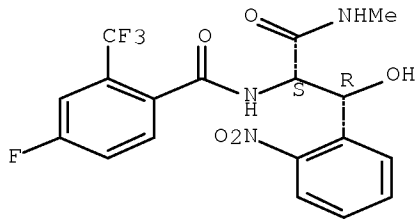
RN 857059-29-1 CAPLUS
CN Benzenepropanamide, α-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-β-hydroxy-N-methyl-2-(phenylmethoxy)-, (αS,βR)- (CA INDEX NAME)

Absolute stereochemistry.



RN 857059-30-4 CAPLUS
CN Benzenepropanamide, α-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-β-hydroxy-N-methyl-2-nitro-, (αR,βS)-rel- (CA INDEX NAME)

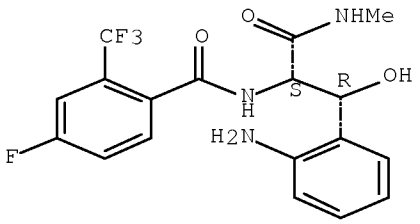
Relative stereochemistry.



RN 857059-31-5 CAPLUS
CN Benzenepropanamide, 2-amino-α-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-β-hydroxy-N-methyl-,

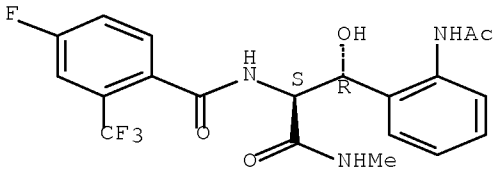
(αS,βR)- (CA INDEX NAME)

Absolute stereochemistry.



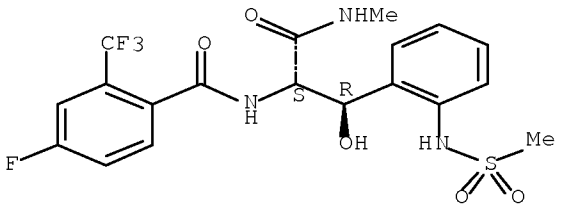
RN 857059-32-6 CAPLUS
CN Benzenepropanamide, 2-(acetylamino)-α-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-β-hydroxy-N-methyl-, (αS,βR)- (CA INDEX NAME)

Absolute stereochemistry.



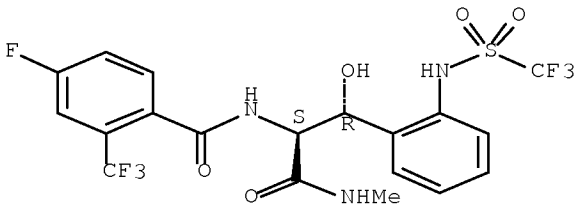
RN 857059-33-7 CAPLUS
CN Benzenepropanamide, α-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-β-hydroxy-N-methyl-2-[(methylsulfonyl)amino]-, (αS,βR)- (CA INDEX NAME)

Absolute stereochemistry.



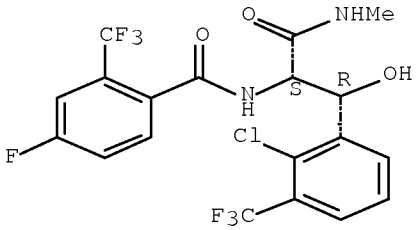
RN 857059-34-8 CAPLUS
CN Benzenepropanamide, α-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-β-hydroxy-N-methyl-2-[[(trifluoromethyl)sulfonyl]amino]-, (αS,βR)- (CA INDEX NAME)

Absolute stereochemistry.



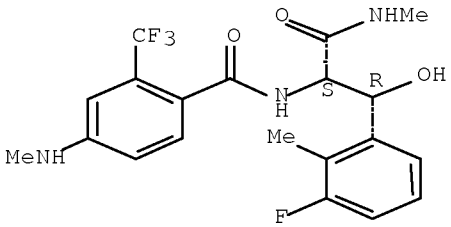
RN 857059-35-9 CAPLUS
CN Benzenepropanamide, 2-chloro-α-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-β-hydroxy-N-methyl-3-(trifluoromethyl)-, (αR,βS)-rel- (CA INDEX NAME)

Relative stereochemistry.



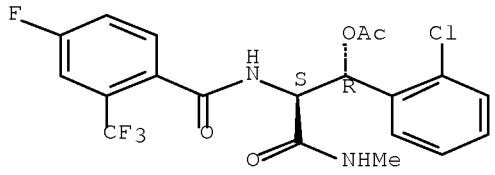
RN 857059-36-0 CAPLUS
CN Benzenepropanamide, 3-fluoro-β-hydroxy-N,2-dimethyl-α-[[4-(methylamino)-2-(trifluoromethyl)benzoyl]amino]-, (αS,βR)- (CA INDEX NAME)

Absolute stereochemistry.



RN 857059-37-1 CAPLUS
CN Benzenepropanamide, β-(acetyloxy)-2-chloro-α-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-N-methyl-, (αR,βS)-rel- (CA INDEX NAME)

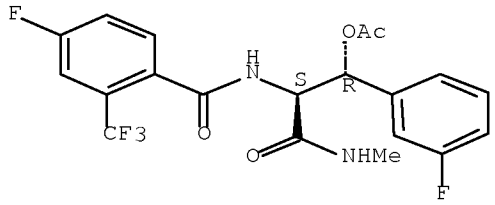
Relative stereochemistry.



RN 857059-38-2 CAPLUS

CN Benzenepropanamide, β-(acetyloxy)-3-fluoro-α-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-N-methyl-, (αR,βS)-rel- (CA INDEX NAME)

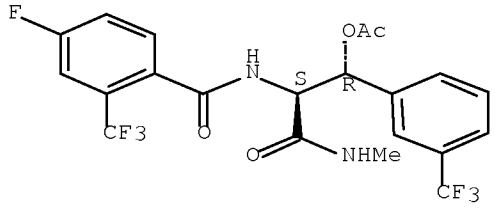
Relative stereochemistry.



RN 857059-39-3 CAPLUS

CN Benzenepropanamide, β-(acetyloxy)-α-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-N-methyl-3-(trifluoromethyl)-, (αR,βS)-rel- (CA INDEX NAME)

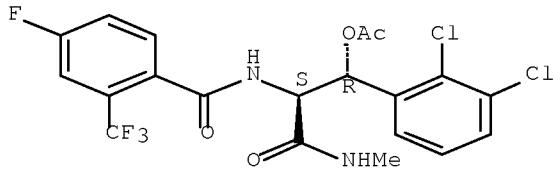
Relative stereochemistry.



RN 857059-40-6 CAPLUS

CN Benzenepropanamide, β-(acetyloxy)-2,3-dichloro-α-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-N-methyl-, (αR,βS)-rel- (CA INDEX NAME)

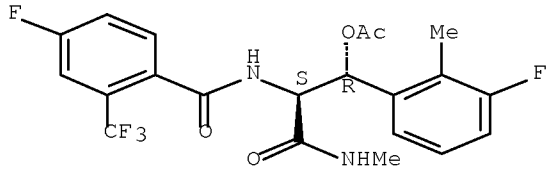
Relative stereochemistry.



RN 857059-41-7 CAPLUS

CN Benzenepropanamide, β-(acetyloxy)-3-fluoro-α-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-N,2-dimethyl-, (αS,βR)- (CA INDEX NAME)

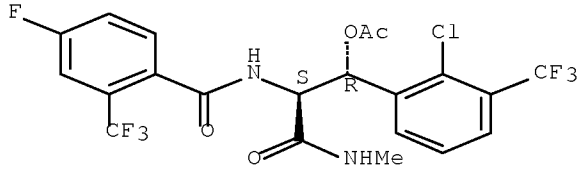
Absolute stereochemistry.



RN 857059-42-8 CAPLUS

CN Benzenepropanamide, β-(acetyloxy)-2-chloro-α-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-N-methyl-3-(trifluoromethyl)-, (αR,βS)-rel- (CA INDEX NAME)

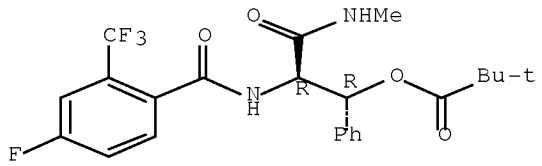
Relative stereochemistry.



RN 857059-43-9 CAPLUS

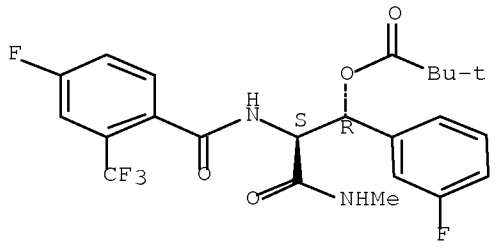
CN Propanoic acid, 2,2-dimethyl-, (1R,2R)-2-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-3-(methylamino)-3-oxo-1-phenylpropyl ester, rel- (CA INDEX NAME)

Relative stereochemistry.



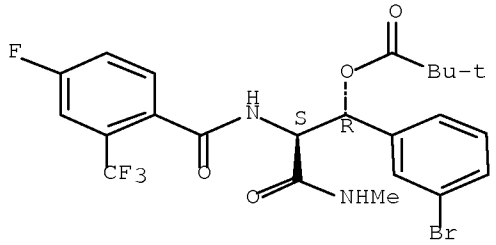
RN 857059-44-0 CAPLUS
CN Propanoic acid, 2,2-dimethyl-, (1R,2S)-1-(3-fluorophenyl)-2-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-3-(methylamino)-3-oxopropyl ester (CA INDEX NAME)

Absolute stereochemistry.



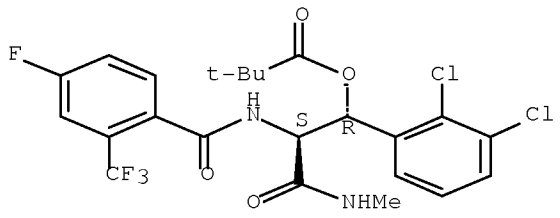
RN 857059-45-1 CAPLUS
CN Propanoic acid, 2,2-dimethyl-, (1R,2S)-1-(3-bromophenyl)-2-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-3-(methylamino)-3-oxopropyl ester (CA INDEX NAME)

Absolute stereochemistry.



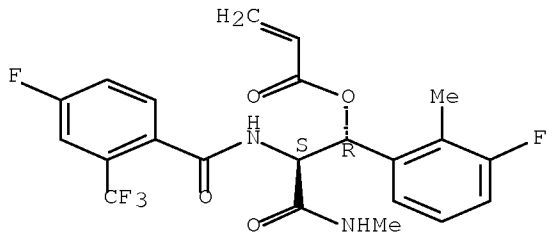
RN 857059-46-2 CAPLUS
CN Propanoic acid, 2,2-dimethyl-, (1R,2S)-1-(2,3-dichlorophenyl)-2-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-3-(methylamino)-3-oxopropyl ester, rel- (CA INDEX NAME)

Relative stereochemistry.



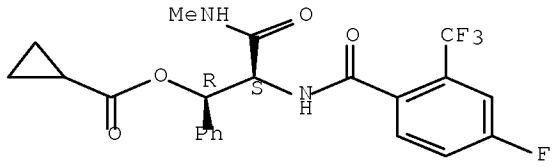
RN 857059-47-3 CAPLUS
CN 2-Propenoic acid, (1R,2S)-1-(3-fluoro-2-methylphenyl)-2-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-3-(methylamino)-3-oxopropyl ester (CA INDEX NAME)

Absolute stereochemistry.



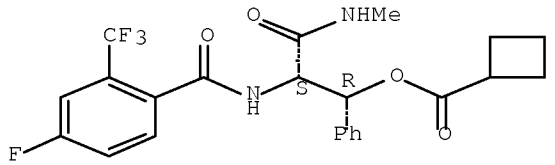
RN 857059-48-4 CAPLUS
CN Cyclopropanecarboxylic acid, (1R,2S)-2-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-3-(methylamino)-3-oxo-1-phenylpropyl ester, rel- (CA INDEX NAME)

Relative stereochemistry.



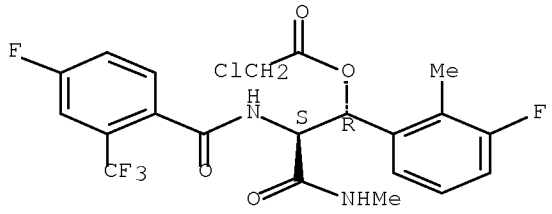
RN 857059-49-5 CAPLUS
CN Cyclobutanecarboxylic acid, (1R,2S)-2-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-3-(methylamino)-3-oxo-1-phenylpropyl ester, rel- (CA INDEX NAME)

Relative stereochemistry.



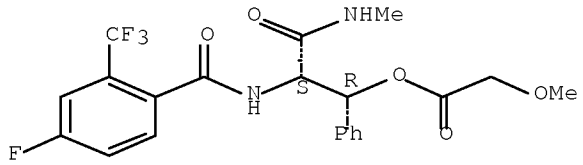
RN 857059-50-8 CAPLUS
CN Acetic acid, 2-chloro-, (1R,2S)-1-(3-fluoro-2-methylphenyl)-2-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-3-(methylamino)-3-oxopropyl ester (CA INDEX NAME)

Absolute stereochemistry.



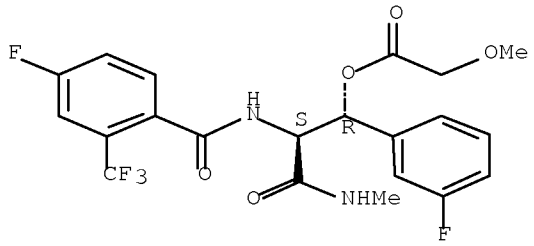
RN 857059-51-9 CAPLUS
CN Acetic acid, 2-methoxy-, (1R,2S)-2-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-3-(methylamino)-3-oxo-1-phenylpropyl ester, rel- (CA INDEX NAME)

Relative stereochemistry.



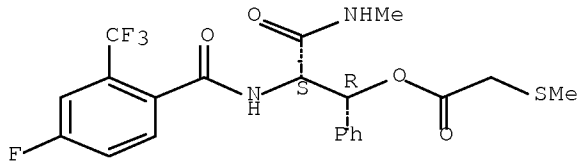
RN 857059-52-0 CAPLUS
CN Acetic acid, 2-methoxy-, (1R,2S)-1-(3-fluorophenyl)-2-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-3-(methylamino)-3-oxopropyl ester (CA INDEX NAME)

Absolute stereochemistry.



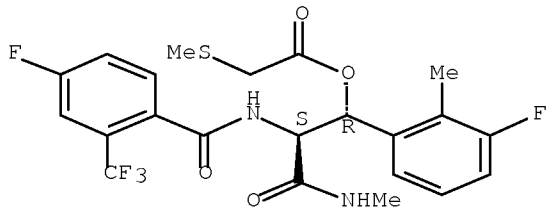
RN 857059-53-1 CAPLUS
CN Acetic acid, 2-(methylthio)-, (1R,2S)-2-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-3-(methylamino)-3-oxo-1-phenylpropyl ester, rel- (CA INDEX NAME)

Relative stereochemistry.



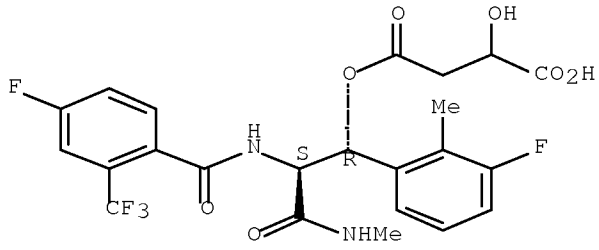
RN 857059-54-2 CAPLUS
CN Acetic acid, 2-(methylthio)-, (1R,2S)-1-(3-fluoro-2-methylphenyl)-2-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-3-(methylamino)-3-oxopropyl ester (CA INDEX NAME)

Absolute stereochemistry.



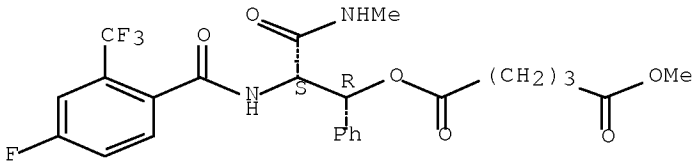
RN 857059-55-3 CAPLUS
CN Butanedioic acid, 2-hydroxy-, 4-[(1R,2S)-1-(3-fluoro-2-methylphenyl)-2-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-3-(methylamino)-3-oxopropyl] ester (CA INDEX NAME)

Absolute stereochemistry.



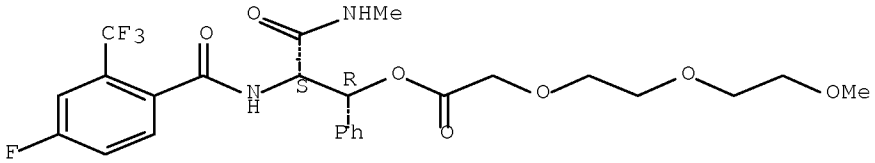
RN 857059-56-4 CAPLUS
CN Pentanedioic acid, 1-[(1R,2S)-2-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-3-(methylamino)-3-oxo-1-phenylpropyl] 5-methyl ester, rel- (CA INDEX NAME)

Relative stereochemistry.



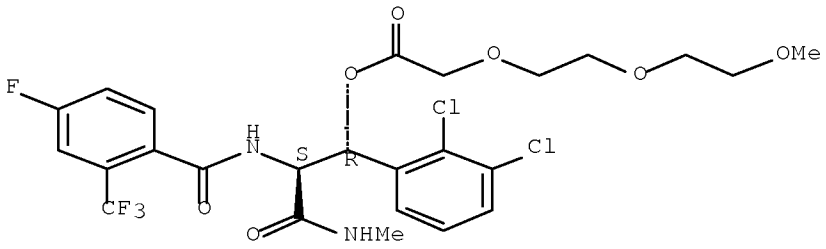
RN 857059-57-5 CAPLUS
CN Acetic acid, 2-[2-(2-methoxyethoxy)ethoxy]-, (1R,2S)-2-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-3-(methylamino)-3-oxo-1-phenylpropyl ester, rel- (CA INDEX NAME)

Relative stereochemistry.



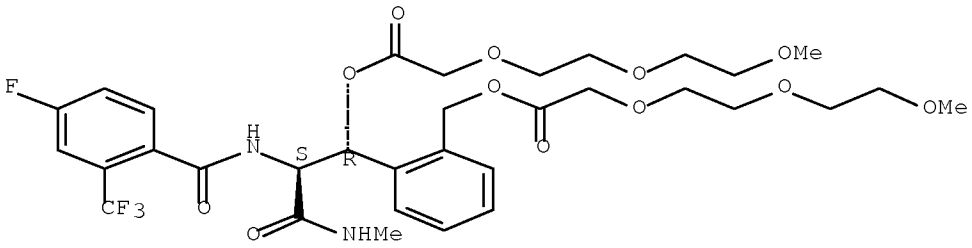
RN 857059-58-6 CAPLUS
CN Acetic acid, 2-[2-(2-methoxyethoxy)ethoxy]-, (1R,2S)-1-(2,3-dichlorophenyl)-2-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-3-(methylamino)-3-oxopropyl ester, rel- (CA INDEX NAME)

Relative stereochemistry.



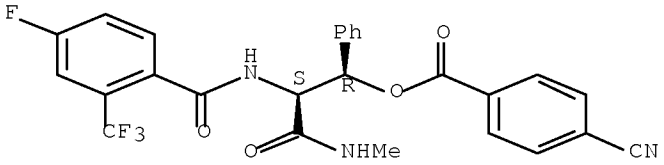
RN 857059-59-7 CAPLUS
CN Acetic acid, [2-(2-methoxyethoxy)ethoxy]-, [2-[(1R)-1-[(1S)-1-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-2-(methylamino)-2-oxoethyl]-3-oxo-2,5,8,11-tetraoxadodec-1-yl]phenyl]methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



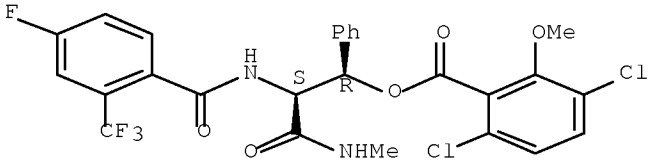
RN 857059-60-0 CAPLUS
CN Benzoic acid, 4-cyano-, (1R,2S)-2-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-3-(methylamino)-3-oxo-1-phenylpropyl ester, rel- (CA INDEX NAME)

Relative stereochemistry.



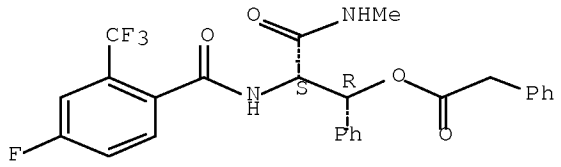
RN 857059-61-1 CAPLUS
CN Benzoic acid, 3,6-dichloro-2-methoxy-, (1R,2S)-2-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-3-(methylamino)-3-oxo-1-phenylpropyl ester, rel- (CA INDEX NAME)

Relative stereochemistry.



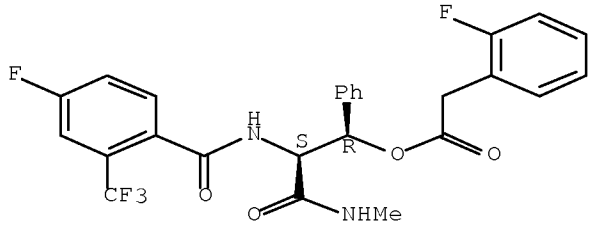
RN 857059-62-2 CAPLUS
CN Benzeneacetic acid, (1R,2S)-2-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-3-(methylamino)-3-oxo-1-phenylpropyl ester, rel- (CA INDEX NAME)

Relative stereochemistry.



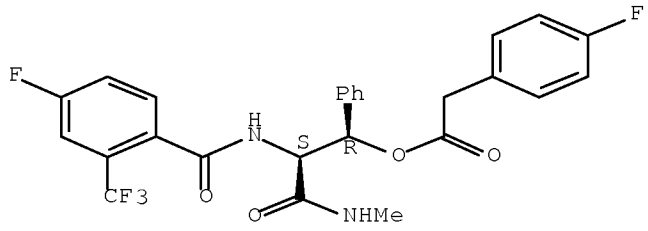
RN 857059-63-3 CAPLUS
CN Benzeneacetic acid, 2-fluoro-, (1R,2S)-2-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-3-(methylamino)-3-oxo-1-phenylpropyl ester, rel- (CA INDEX NAME)

Relative stereochemistry.



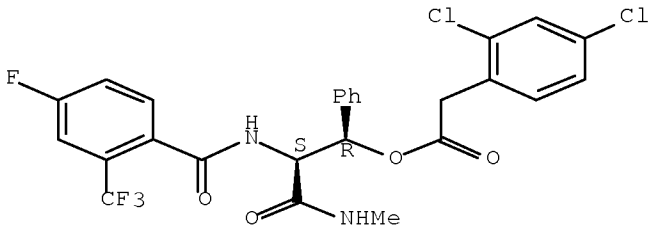
RN 857059-64-4 CAPLUS
CN Benzeneacetic acid, 4-fluoro-, (1R,2S)-2-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-3-(methylamino)-3-oxo-1-phenylpropyl ester, rel- (CA INDEX NAME)

Relative stereochemistry.



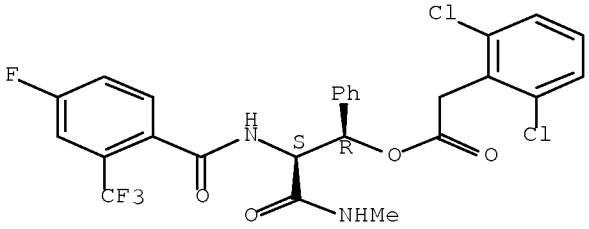
RN 857059-65-5 CAPLUS
CN Benzeneacetic acid, 2,4-dichloro-, (1R,2S)-2-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-3-(methylamino)-3-oxo-1-phenylpropyl ester, rel- (CA INDEX NAME)

Relative stereochemistry.



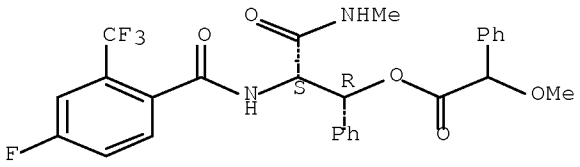
RN 857059-66-6 CAPLUS
CN Benzeneacetic acid, 2,6-dichloro-, (1R,2S)-2-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-3-(methylamino)-3-oxo-1-phenylpropyl ester, rel- (CA INDEX NAME)

Relative stereochemistry.



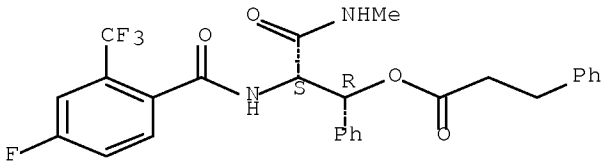
RN 857059-67-7 CAPLUS
CN Benzeneacetic acid, α-methoxy-, (1R,2S)-2-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-3-(methylamino)-3-oxo-1-phenylpropyl ester, rel- (CA INDEX NAME)

Relative stereochemistry.



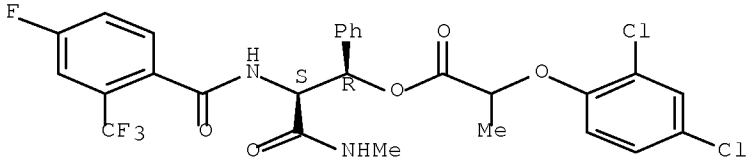
RN 857059-68-8 CAPLUS
CN Benzenepropanoic acid, (1R,2S)-2-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-3-(methylamino)-3-oxo-1-phenylpropyl ester, rel- (CA INDEX NAME)

Relative stereochemistry.



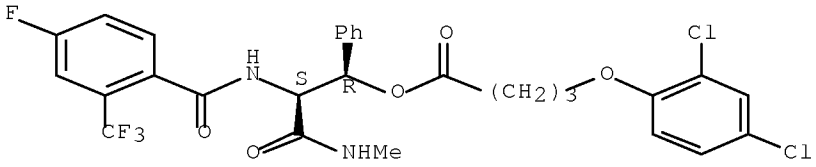
RN 857059-69-9 CAPLUS
CN Propanoic acid, 2-(2,4-dichlorophenoxy)-, (1R,2S)-2-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-3-(methylamino)-3-oxo-1-phenylpropyl ester, rel- (CA INDEX NAME)

Relative stereochemistry.



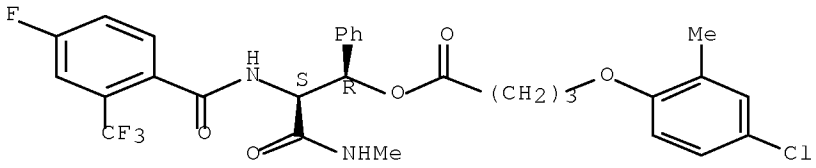
RN 857059-70-2 CAPLUS
CN Butanoic acid, 4-(2,4-dichlorophenoxy)-, (1R,2S)-2-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-3-(methylamino)-3-oxo-1-phenylpropyl ester, rel- (CA INDEX NAME)

Relative stereochemistry.



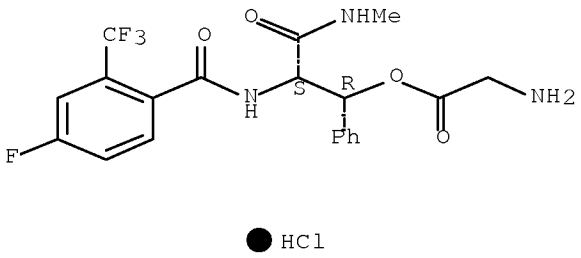
RN 857059-71-3 CAPLUS
CN Butanoic acid, 4-(4-chloro-2-methylphenoxy)-, (1R,2S)-2-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-3-(methylamino)-3-oxo-1-phenylpropyl ester, rel- (CA INDEX NAME)

Relative stereochemistry.



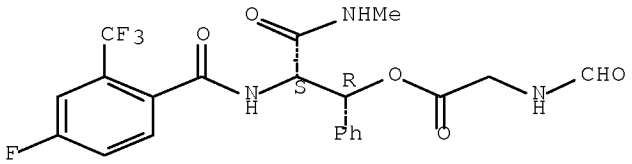
RN 857059-72-4 CAPLUS
CN Glycine, (1R,2S)-2-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-3-(methylamino)-3-oxo-1-phenylpropyl ester, monohydrochloride, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



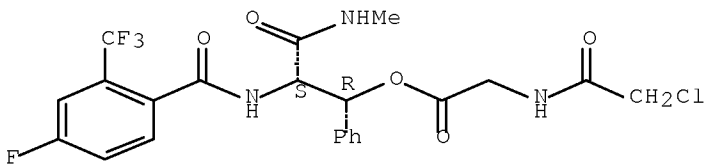
RN 857059-73-5 CAPLUS
CN Glycine, N-formyl-, (1R,2S)-2-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-3-(methylamino)-3-oxo-1-phenylpropyl ester, rel- (CA INDEX NAME)

Relative stereochemistry.



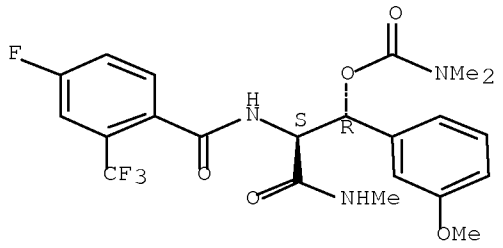
RN 857059-74-6 CAPLUS
CN Glycine, N-(chloroacetyl)-, (1R,2S)-2-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-3-(methylamino)-3-oxo-1-phenylpropyl ester, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



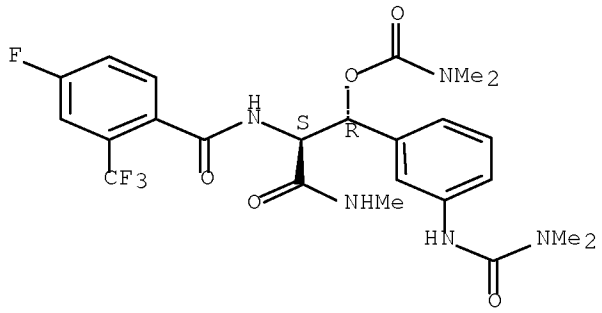
RN 857059-75-7 CAPLUS
CN Carbamic acid, dimethyl-, (1R,2S)-2-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-1-(3-methoxyphenyl)-3-(methylamino)-3-oxopropyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



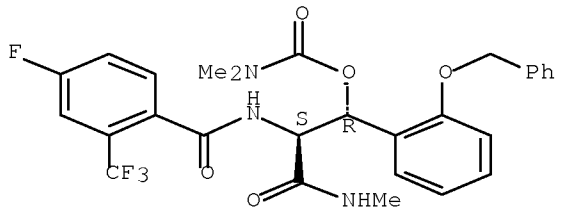
RN 857059-76-8 CAPLUS
CN Carbamic acid, dimethyl-, (1R,2S)-1-[3-[[(dimethylamino)carbonyl]amino]phenyl]-2-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-3-(methylamino)-3-oxopropyl ester, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 857059-77-9 CAPLUS
CN Carbamic acid, dimethyl-, (1R,2S)-2-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-3-(methylamino)-3-oxo-1-[2-(phenylmethoxy)phenyl]propyl ester (9CI) (CA INDEX NAME)

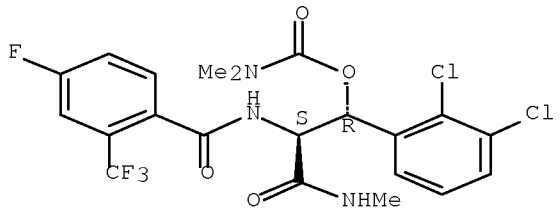
Absolute stereochemistry.



RN 857059-78-0 CAPLUS
CN Carbamic acid, dimethyl-, (1R,2S)-1-(2,3-dichlorophenyl)-2-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-3-(methylamino)-3-oxopropyl ester, rel-

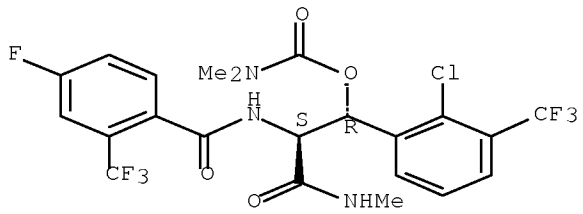
(9CI) (CA INDEX NAME)

Relative stereochemistry.



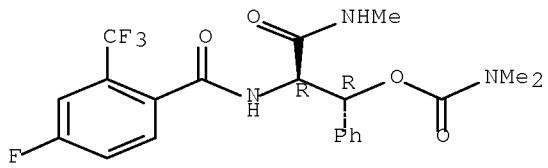
RN 857059-79-1 CAPLUS
CN Carbamic acid, dimethyl-, (1R,2S)-1-[2-chloro-3-(trifluoromethyl)phenyl]-2-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-3-(methylamino)-3-oxopropyl ester, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



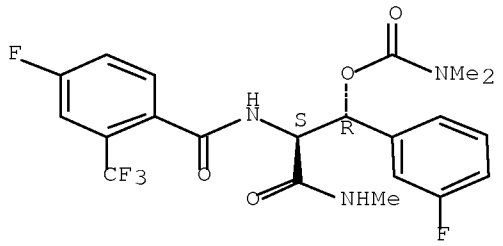
RN 857059-80-4 CAPLUS
CN Carbamic acid, dimethyl-, (1R,2R)-2-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-3-(methylamino)-3-oxo-1-phenylpropyl ester, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



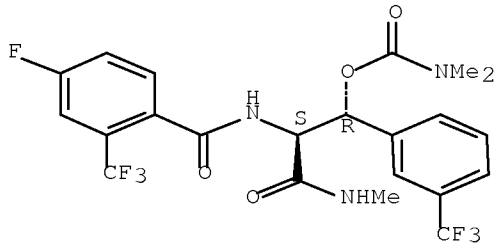
RN 857059-81-5 CAPLUS
CN Carbamic acid, dimethyl-, (1R,2S)-1-(3-fluorophenyl)-2-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-3-(methylamino)-3-oxopropyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



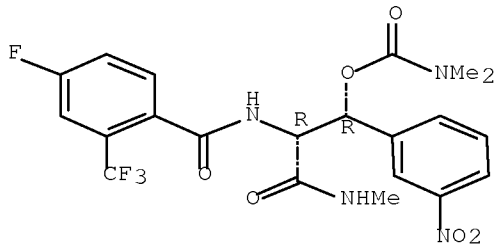
RN 857059-82-6 CAPLUS
CN Carbamic acid, dimethyl-, (1R,2S)-2-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-3-(methylamino)-3-oxo-1-[3-(trifluoromethyl)phenyl]propyl ester, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



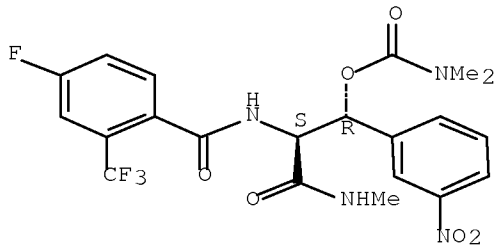
RN 857059-83-7 CAPLUS
CN Carbamic acid, dimethyl-, (1R,2R)-2-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-3-(methylamino)-1-(3-nitrophenyl)-3-oxopropyl ester, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



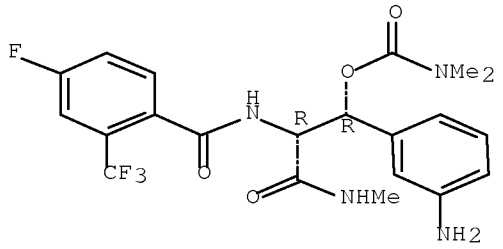
RN 857059-84-8 CAPLUS
CN Carbamic acid, dimethyl-, (1R,2S)-2-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-3-(methylamino)-1-(3-nitrophenyl)-3-oxopropyl ester, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



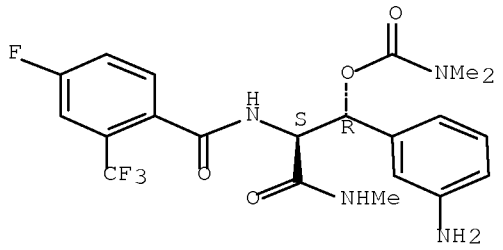
RN 857059-85-9 CAPLUS
CN Carbamic acid, dimethyl-, (1R,2R)-1-(3-aminophenyl)-2-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-3-(methylamino)-3-oxopropyl ester, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



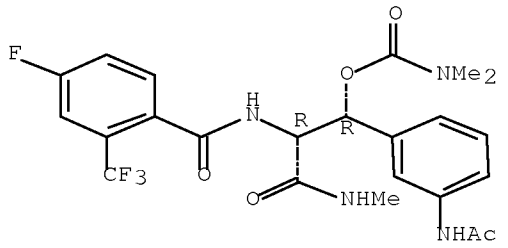
RN 857059-86-0 CAPLUS
CN Carbamic acid, dimethyl-, (1R,2S)-1-(3-aminophenyl)-2-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-3-(methylamino)-3-oxopropyl ester, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



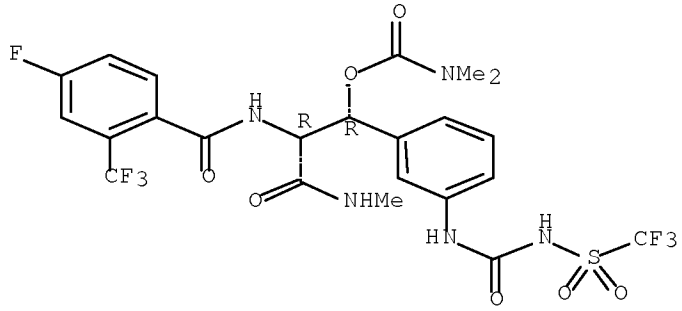
RN 857059-87-1 CAPLUS
CN Carbamic acid, dimethyl-, (1R,2R)-1-[3-(acetylamino)phenyl]-2-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-3-(methylamino)-3-oxopropyl ester, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



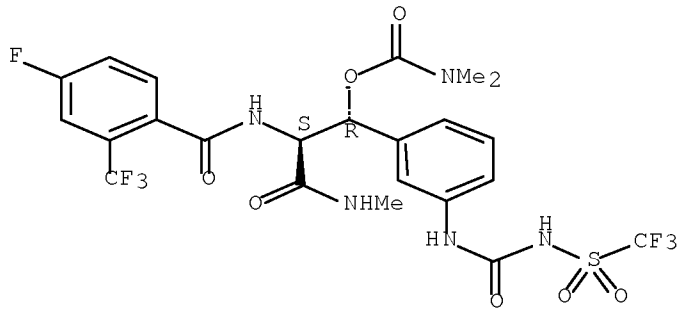
RN 857059-88-2 CAPLUS
CN Carbamic acid, dimethyl-, (1R,2R)-2-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-3-(methylamino)-3-oxo-1-[3-[[[[(trifluoromethyl)sulfonyl]amino]carbonyl]amino]phenyl]propyl ester, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 857059-89-3 CAPLUS
CN Carbamic acid, dimethyl-, (1R,2S)-2-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-3-(methylamino)-3-oxo-1-[3-[[[[(trifluoromethyl)sulfonyl]amino]carbonyl]amino]phenyl]propyl ester, rel- (9CI) (CA INDEX NAME)

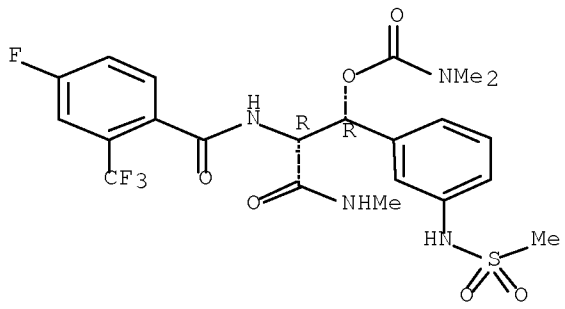
Relative stereochemistry.



RN 857059-90-6 CAPLUS
CN Carbamic acid, dimethyl-, (1R,2R)-2-[[4-fluoro-2-

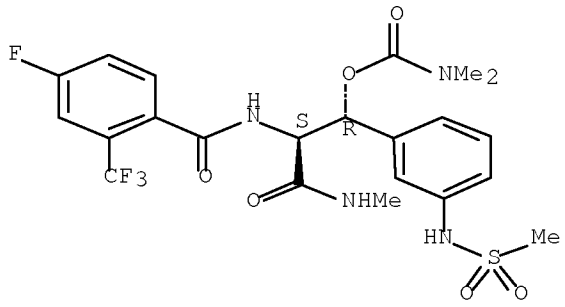
(trifluoromethyl)benzoyl]amino]-3-(methylamino)-1-[3-[(methylsulfonyl)amino]phenyl]-3-oxopropyl ester, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



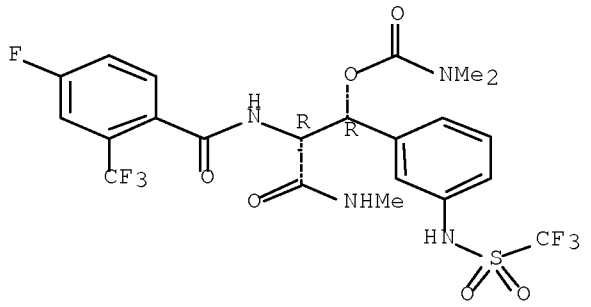
RN 857059-91-7 CAPLUS
CN Carbamic acid, dimethyl-, (1R,2S)-2-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-3-(methylamino)-1-[3-[(methylsulfonyl)amino]phenyl]-3-oxopropyl ester, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



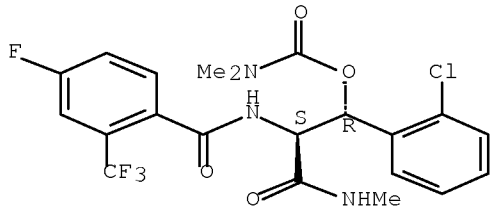
RN 857059-92-8 CAPLUS
CN Carbamic acid, dimethyl-, (1R,2R)-2-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-3-(methylamino)-3-oxo-1-[3-[[(trifluoromethyl)sulfonyl]amino]phenyl]propyl ester, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



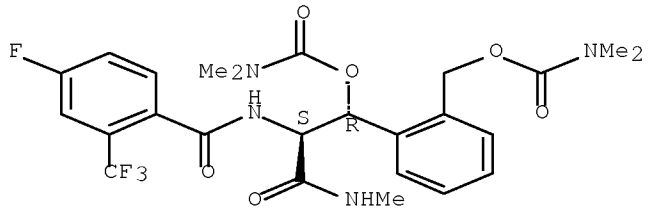
RN 857059-93-9 CAPLUS
CN Carbamic acid, dimethyl-, (1R,2S)-1-(2-chlorophenyl)-2-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-3-(methylamino)-3-oxopropyl ester, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



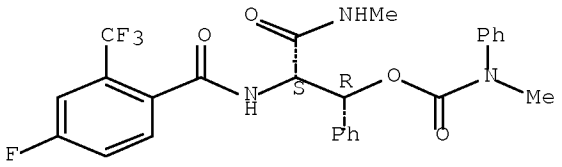
RN 857059-94-0 CAPLUS
CN Carbamic acid, dimethyl-, [2-[(1R,2S)-1-[[(dimethylamino)carbonyl]oxy]-2-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-3-(methylamino)-3-oxopropyl]phenyl]methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



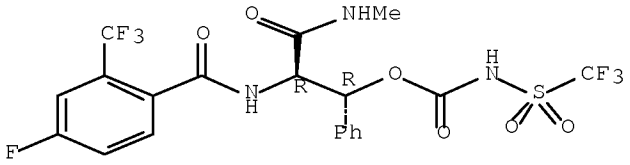
RN 857059-95-1 CAPLUS
CN Carbamic acid, methylphenyl-, (1R,2S)-2-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-3-(methylamino)-3-oxo-1-phenylpropyl ester (9CI) (CA INDEX NAME)

Relative stereochemistry.



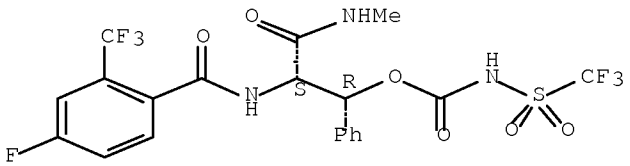
RN 857059-96-2 CAPLUS
CN Carbamic acid, [(trifluoromethyl)sulfonyl]-, (1R,2R)-2-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-3-(methylamino)-3-oxo-1-phenylpropyl ester, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



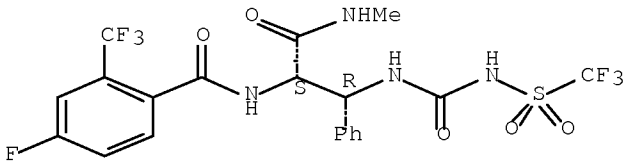
RN 857059-97-3 CAPLUS
CN Carbamic acid, [(trifluoromethyl)sulfonyl]-, (1R,2S)-2-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-3-(methylamino)-3-oxo-1-phenylpropyl ester, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



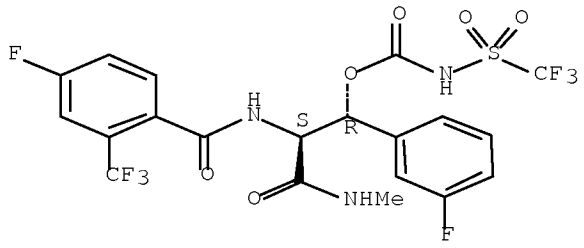
RN 857059-98-4 CAPLUS
CN Benzenepropanamide, α-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-N-methyl-β-[[[[(trifluoromethyl)sulfonyl]amino]carbonyl]amino]-, (αR,βS)-rel- (CA INDEX NAME)

Relative stereochemistry.



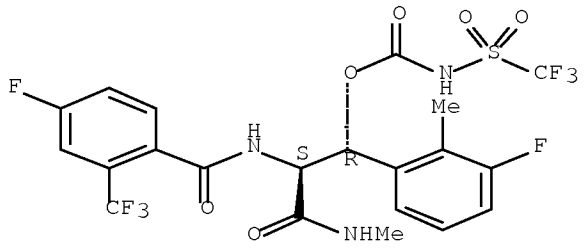
RN 857059-99-5 CAPLUS
CN Carbamic acid, [(trifluoromethyl)sulfonyl]-, (1R,2S)-1-(3-fluorophenyl)-2-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-3-(methylamino)-3-oxopropyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



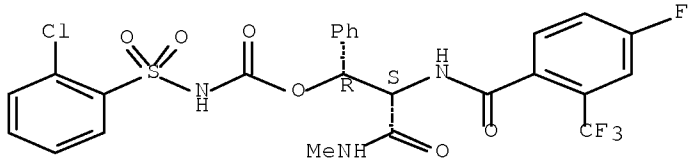
RN 857060-00-5 CAPLUS
CN Carbamic acid, [(trifluoromethyl)sulfonyl]-, (1R,2S)-1-(3-fluoro-2-methylphenyl)-2-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-3-(methylamino)-3-oxopropyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



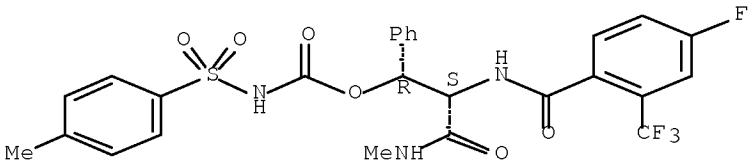
RN 857060-01-6 CAPLUS
CN Carbamic acid, [(2-chlorophenyl)sulfonyl]-, (1R,2S)-2-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-3-(methylamino)-3-oxo-1-phenylpropyl ester, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



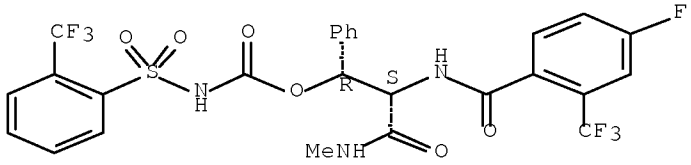
RN 857060-02-7 CAPLUS
CN Carbamic acid, [(4-methylphenyl)sulfonyl]-, (1R,2S)-2-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-3-(methylamino)-3-oxo-1-phenylpropyl ester, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



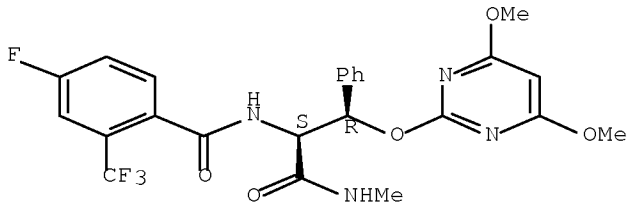
RN 857060-03-8 CAPLUS
CN Carbamic acid, [[2-(trifluoromethyl)phenyl]sulfonyl]-, (1R,2S)-2-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-3-(methylamino)-3-oxo-1-phenylpropyl ester, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



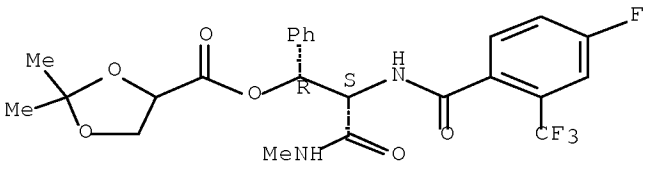
RN 857060-04-9 CAPLUS
CN Benzenepropanamide, β-[(4,6-dimethoxy-2-pyrimidinyl)oxy]-α-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-N-methyl-, (αR,βS)-rel- (CA INDEX NAME)

Relative stereochemistry.



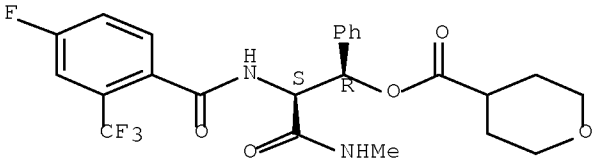
RN 857060-05-0 CAPLUS
CN 1,3-Dioxolane-4-carboxylic acid, 2,2-dimethyl-, (1R,2S)-2-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-3-(methylamino)-3-oxo-1-phenylpropyl ester, rel- (CA INDEX NAME)

Relative stereochemistry.



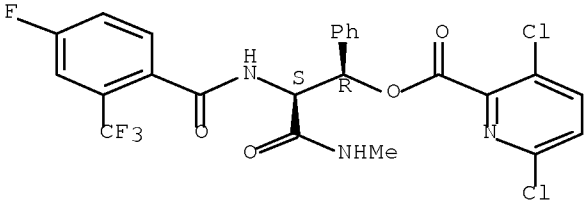
RN 857060-06-1 CAPLUS
CN 2H-Pyran-4-carboxylic acid, tetrahydro-, (1R,2S)-2-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-3-(methylamino)-3-oxo-1-phenylpropyl ester, rel- (CA INDEX NAME)

Relative stereochemistry.



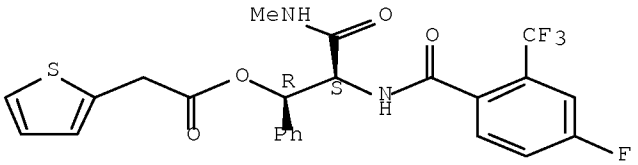
RN 857060-07-2 CAPLUS
CN 2-Pyridinecarboxylic acid, 3,6-dichloro-, (1R,2S)-2-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-3-(methylamino)-3-oxo-1-phenylpropyl ester, rel- (CA INDEX NAME)

Relative stereochemistry.



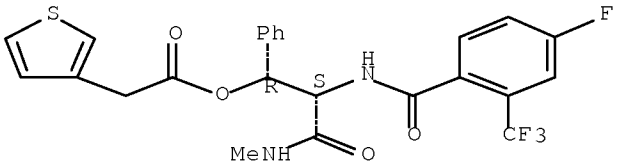
RN 857060-08-3 CAPLUS
CN 2-Thiopheneacetic acid, (1R,2S)-2-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-3-(methylamino)-3-oxo-1-phenylpropyl ester, rel- (CA INDEX NAME)

Relative stereochemistry.



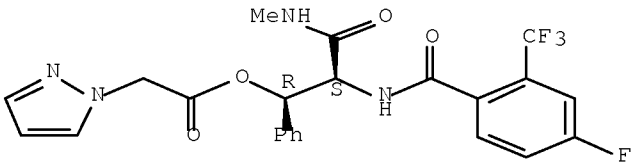
RN 857060-09-4 CAPLUS
CN 3-Thiopheneacetic acid, (1R,2S)-2-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-3-(methylamino)-3-oxo-1-phenylpropyl ester, rel- (CA INDEX NAME)

Relative stereochemistry.



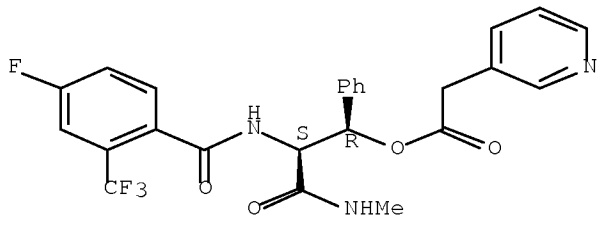
RN 857060-10-7 CAPLUS
CN 1H-Pyrazole-1-acetic acid, (1R,2S)-2-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-3-(methylamino)-3-oxo-1-phenylpropyl ester, rel- (CA INDEX NAME)

Relative stereochemistry.



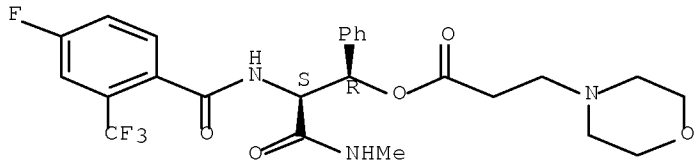
RN 857060-11-8 CAPLUS
CN 3-Pyridineacetic acid, (1R,2S)-2-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-3-(methylamino)-3-oxo-1-phenylpropyl ester, rel- (CA INDEX NAME)

Relative stereochemistry.



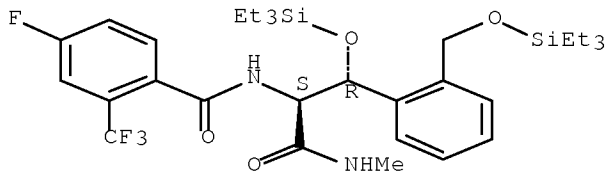
RN 857060-12-9 CAPLUS
CN 4-Morpholinepropanoic acid, (1R,2S)-2-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-3-(methylamino)-3-oxo-1-phenylpropyl ester, rel- (CA INDEX NAME)

Relative stereochemistry.



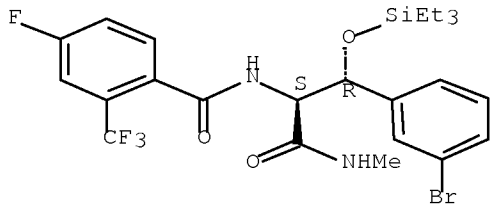
RN 857060-13-0 CAPLUS
CN Benzenepropanamide, α-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-N-methyl-β-[(triethylsilyl)oxy]-2-[[(triethylsilyl)oxy]methyl]-, (αS,βR)- (CA INDEX NAME)

Absolute stereochemistry.



RN 857060-14-1 CAPLUS
CN Benzenepropanamide, 3-bromo-α-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-N-methyl-β-[(triethylsilyl)oxy]-, (αS,βR)- (CA INDEX NAME)

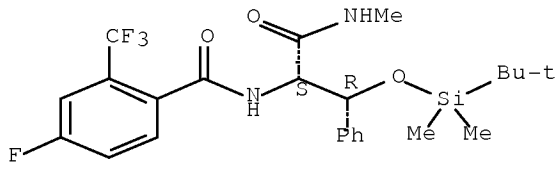
Absolute stereochemistry.



RN 857060-15-2 CAPLUS

CN Benzenepropanamide, β-[[(1,1-dimethylethyl)dimethylsilyl]oxy]-α-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-N-methyl-, (αR,βS)-rel- (CA INDEX NAME)

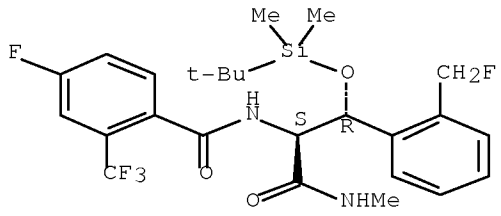
Relative stereochemistry.



RN 857060-16-3 CAPLUS

CN Benzenepropanamide, β-[[(1,1-dimethylethyl)dimethylsilyl]oxy]-2-(fluoromethyl)-α-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-N-methyl-, (αS,βR)- (CA INDEX NAME)

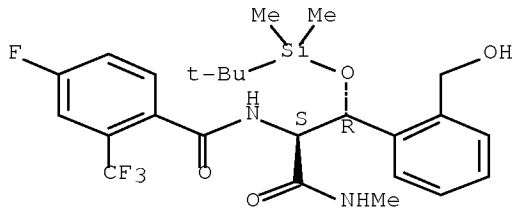
Absolute stereochemistry.



RN 857060-17-4 CAPLUS

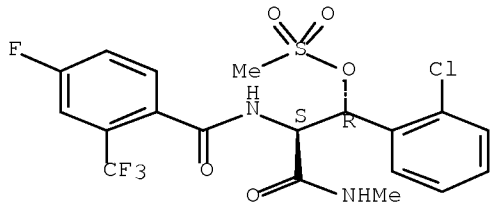
CN Benzenepropanamide, β-[[(1,1-dimethylethyl)dimethylsilyl]oxy]-α-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-2-(hydroxymethyl)-N-methyl-, (αS,βR)- (CA INDEX NAME)

Absolute stereochemistry.



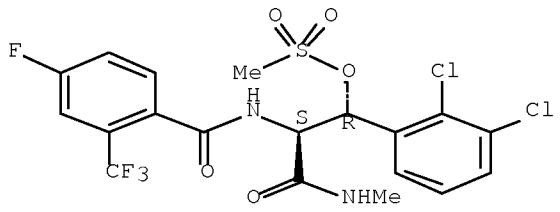
RN 857060-18-5 CAPLUS
CN Benzenepropanamide, 2-chloro-α-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-N-methyl-β-[(methylsulfonyl)oxy]-, (αR,βS)-rel- (CA INDEX NAME)

Relative stereochemistry.



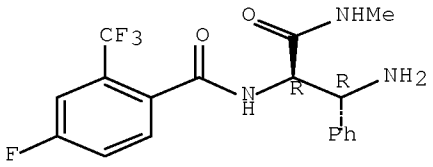
RN 857060-19-6 CAPLUS
CN Benzenepropanamide, 2,3-dichloro-α-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-N-methyl-β-[(methylsulfonyl)oxy]-, (αR,βS)-rel- (CA INDEX NAME)

Relative stereochemistry.



RN 857060-20-9 CAPLUS
CN Benzenepropanamide, β-amino-α-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-N-methyl-, (αR,βR)-rel- (CA INDEX NAME)

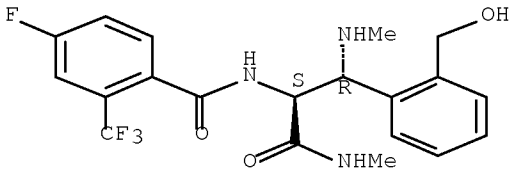
Relative stereochemistry.



RN 857060-21-0 CAPLUS

CN Benzenepropanamide, α-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-2-(hydroxymethyl)-N-methyl-β-(methylamino)-, (αS,βR)- (CA INDEX NAME)

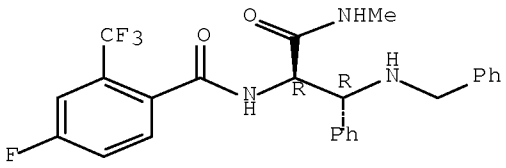
Absolute stereochemistry.



RN 857060-22-1 CAPLUS

CN Benzenepropanamide, α-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-N-methyl-β-[(phenylmethyl)amino]-, (αR,βR)-rel- (CA INDEX NAME)

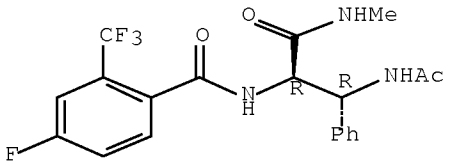
Relative stereochemistry.



RN 857060-23-2 CAPLUS

CN Benzenepropanamide, β-(acetylamino)-α-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-N-methyl-, (αR,βR)-rel- (CA INDEX NAME)

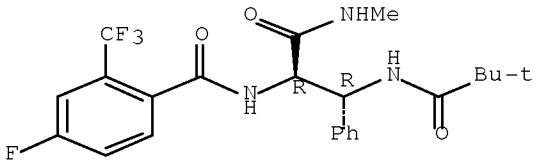
Relative stereochemistry.



RN 857060-24-3 CAPLUS

CN Benzenepropanamide, β-[(2,2-dimethyl-1-oxopropyl)amino]-α-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-N-methyl-, (αR,βR)-rel- (CA INDEX NAME)

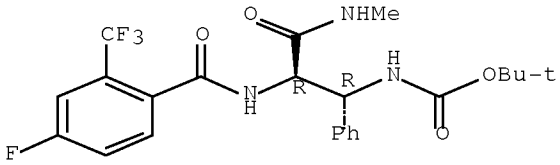
Relative stereochemistry.



RN 857060-25-4 CAPLUS

CN Carbamic acid, [(1R,2R)-2-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-3-(methylamino)-3-oxo-1-phenylpropyl]-, 1,1-dimethylethyl ester, rel- (9CI) (CA INDEX NAME)

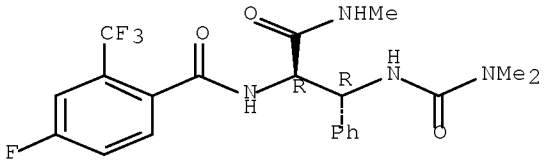
Relative stereochemistry.



RN 857060-26-5 CAPLUS

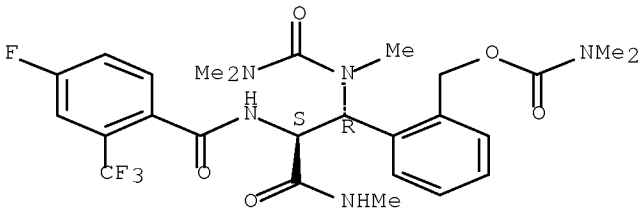
CN Benzenepropanamide, β-[[(dimethylamino)carbonyl]amino]-α-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-N-methyl-, (αR,βR)-rel- (CA INDEX NAME)

Relative stereochemistry.



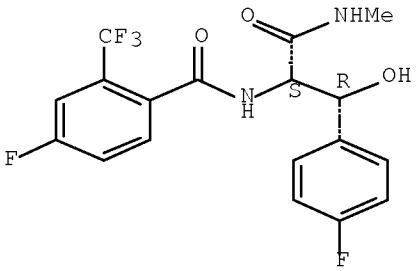
RN 857060-27-6 CAPLUS
CN Carbamic acid, dimethyl-, [2-[(1R,2S)-1-[[(dimethylamino)carbonyl]methylamino]-2-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-3-(methylamino)-3-oxopropyl]phenyl]methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



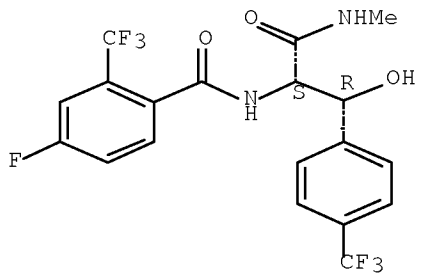
RN 857060-28-7 CAPLUS
CN Benzenepropanamide, 4-fluoro-α-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-β-hydroxy-N-methyl-, (αS,βR)- (CA INDEX NAME)

Absolute stereochemistry.



RN 857060-29-8 CAPLUS
CN Benzenepropanamide, α-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-β-hydroxy-N-methyl-4-(trifluoromethyl)-, (αR,βS)-rel- (CA INDEX NAME)

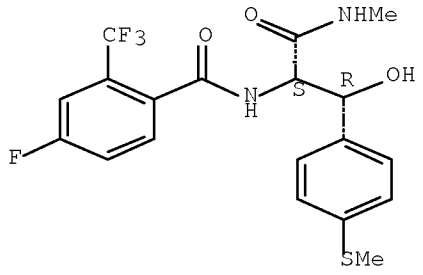
Relative stereochemistry.



RN 857060-30-1 CAPLUS

CN Benzenepropanamide, α-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-β-hydroxy-N-methyl-4-(methylthio)-, (αR,βS)-rel- (CA INDEX NAME)

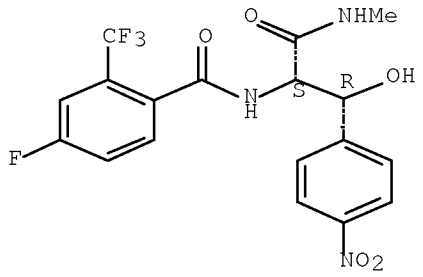
Relative stereochemistry.



RN 857060-31-2 CAPLUS

CN Benzenepropanamide, α-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-β-hydroxy-N-methyl-4-nitro-, (αR,βS)-rel- (CA INDEX NAME)

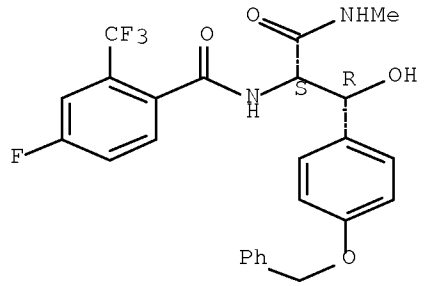
Relative stereochemistry.



RN 857060-32-3 CAPLUS

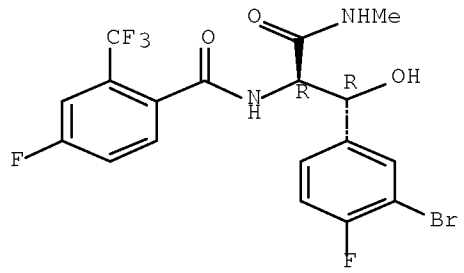
CN Benzenepropanamide, α-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-β-hydroxy-N-methyl-4-(phenylmethoxy)-, (αS,βR)- (CA INDEX NAME)

Absolute stereochemistry.



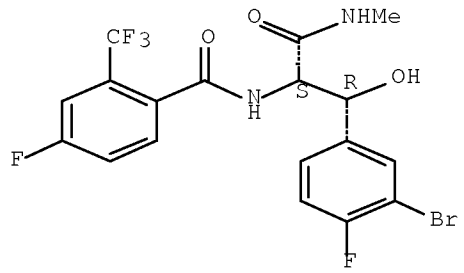
RN 857060-33-4 CAPLUS
CN Benzenepropanamide, 3-bromo-4-fluoro-α-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-β-hydroxy-N-methyl-, (αR,βR)-rel- (CA INDEX NAME)

Relative stereochemistry.



RN 857060-34-5 CAPLUS
CN Benzenepropanamide, 3-bromo-4-fluoro-α-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-β-hydroxy-N-methyl-, (αR,βS)-rel- (CA INDEX NAME)

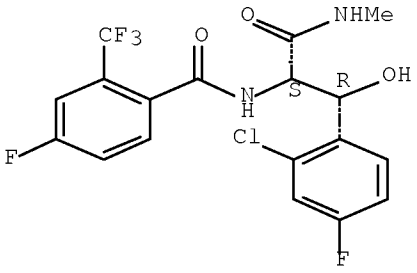
Relative stereochemistry.



RN 857060-35-6 CAPLUS
CN Benzenepropanamide, 2-chloro-4-fluoro-α-[[4-fluoro-2-

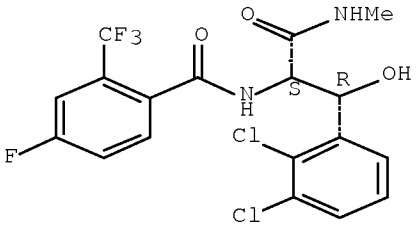
(trifluoromethyl)benzoyl]amino]-β-hydroxy-N-methyl-,
(αR,βS)-rel- (CA INDEX NAME)

Relative stereochemistry.



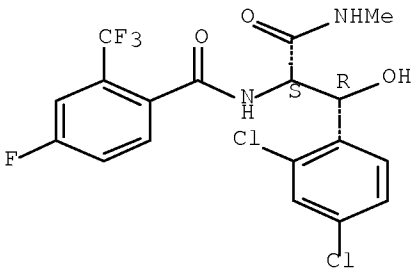
RN 857060-36-7 CAPLUS
CN Benzenepropanamide, 2,3-dichloro-α-[[4-fluoro-2-
(trifluoromethyl)benzoyl]amino]-β-hydroxy-N-methyl-,
(αR,βS)-rel- (CA INDEX NAME)

Relative stereochemistry.



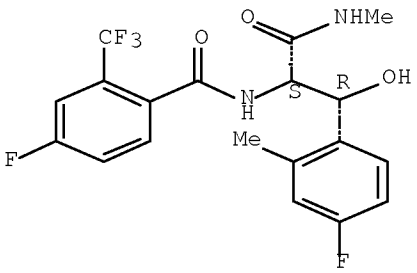
RN 857060-37-8 CAPLUS
CN Benzenepropanamide, 2,4-dichloro-α-[[4-fluoro-2-
(trifluoromethyl)benzoyl]amino]-β-hydroxy-N-methyl-,
(αR,βS)-rel- (CA INDEX NAME)

Relative stereochemistry.



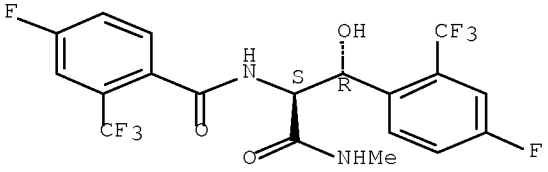
RN 857060-38-9 CAPLUS
CN Benzenepropanamide, 4-fluoro-α-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-β-hydroxy-N,2-dimethyl-, (αS,βR)- (CA INDEX NAME)

Absolute stereochemistry.



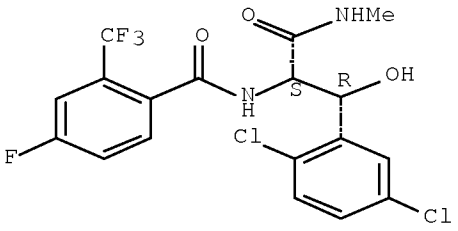
RN 857060-39-0 CAPLUS
CN Benzenepropanamide, 4-fluoro-α-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-β-hydroxy-N-methyl-2-(trifluoromethyl)-, (αR,βS)-rel- (CA INDEX NAME)

Relative stereochemistry.



RN 857060-40-3 CAPLUS
CN Benzenepropanamide, 2,5-dichloro-α-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-β-hydroxy-N-methyl-, (αR,βS)-rel- (CA INDEX NAME)

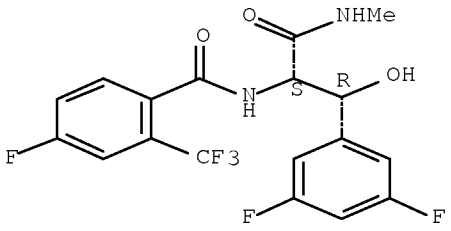
Relative stereochemistry.



RN 857060-41-4 CAPLUS

CN Benzenepropanamide, 3,5-difluoro-α-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-β-hydroxy-N-methyl-, (αR,βS)-rel- (CA INDEX NAME)

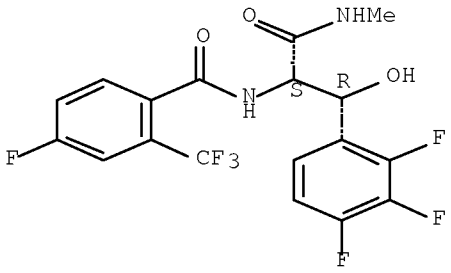
Relative stereochemistry.



RN 857060-42-5 CAPLUS

CN Benzenepropanamide, 2,3,4-trifluoro-α-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-β-hydroxy-N-methyl-, (αS,βR)- (CA INDEX NAME)

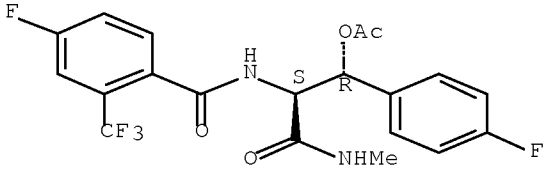
Absolute stereochemistry.



RN 857060-43-6 CAPLUS

CN Benzenepropanamide, β-(acetyloxy)-4-fluoro-α-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-N-methyl-, (αS,βR)- (CA INDEX NAME)

Absolute stereochemistry.

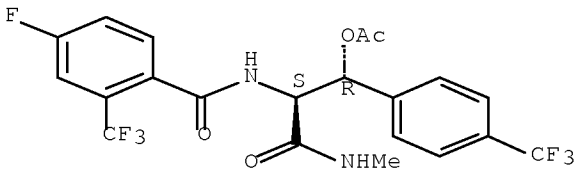


RN 857060-44-7 CAPLUS

CN Benzenepropanamide, β-(acetyloxy)-α-[[4-fluoro-2-

(trifluoromethyl)benzoyl]amino]-N-methyl-4-(trifluoromethyl)-, (αR,βS)-rel- (CA INDEX NAME)

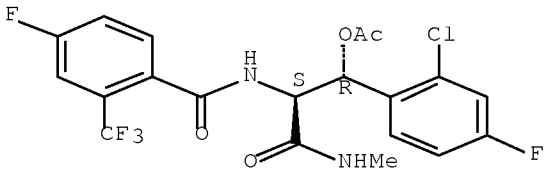
Relative stereochemistry.



RN 857060-45-8 CAPLUS

CN Benzenepropanamide, β-(acetyloxy)-2-chloro-4-fluoro-α-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-N-methyl-, (αR,βS)-rel- (CA INDEX NAME)

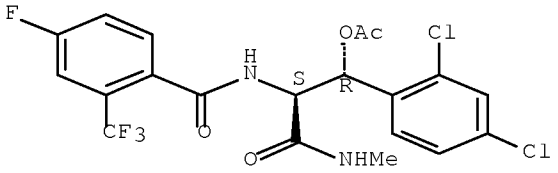
Relative stereochemistry.



RN 857060-46-9 CAPLUS

CN Benzenepropanamide, β-(acetyloxy)-2,4-dichloro-α-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-N-methyl-, (αR,βS)-rel- (CA INDEX NAME)

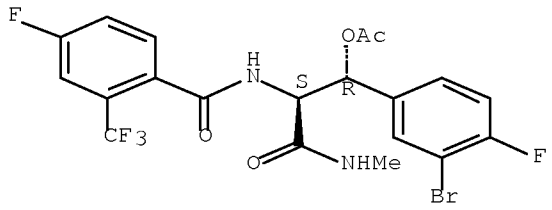
Relative stereochemistry.



RN 857060-47-0 CAPLUS

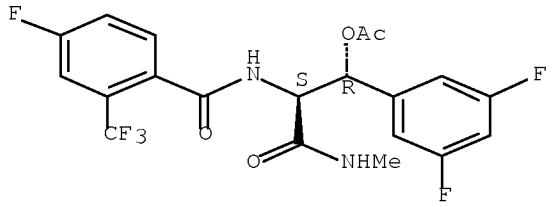
CN Benzenepropanamide, β-(acetyloxy)-3-bromo-4-fluoro-α-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-N-methyl-, (αR,βS)-rel- (CA INDEX NAME)

Relative stereochemistry.



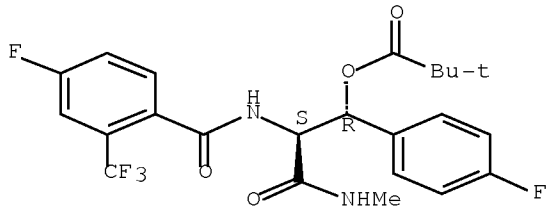
RN 857060-48-1 CAPLUS
CN Benzenepropanamide, β-(acetyloxy)-3,5-difluoro-α-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-N-methyl-, (αR,βS)-rel- (CA INDEX NAME)

Relative stereochemistry.



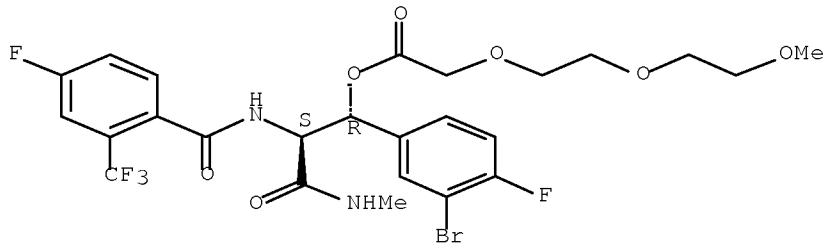
RN 857060-49-2 CAPLUS
CN Propanoic acid, 2,2-dimethyl-, (1R,2S)-1-(4-fluorophenyl)-2-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-3-(methylamino)-3-oxopropyl ester (CA INDEX NAME)

Absolute stereochemistry.



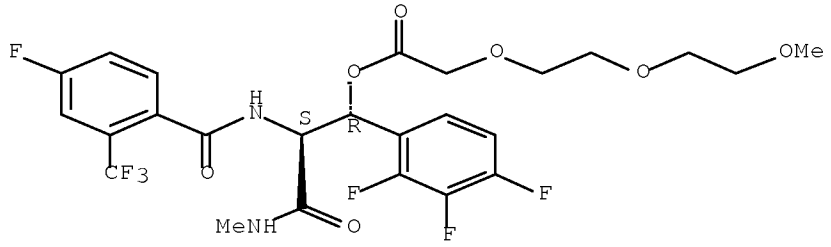
RN 857060-50-5 CAPLUS
CN Acetic acid, 2-[2-(2-methoxyethoxy)ethoxy]-, (1R,2S)-1-(3-bromo-4-fluorophenyl)-2-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-3-(methylamino)-3-oxopropyl ester, rel- (CA INDEX NAME)

Relative stereochemistry.



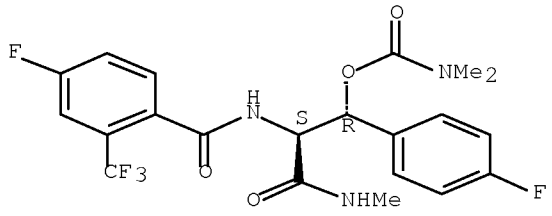
RN 857060-51-6 CAPLUS
CN Acetic acid, 2-[2-(2-methoxyethoxy)ethoxy]-, (1R,2S)-2-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-3-(methylamino)-3-oxo-1-(2,3,4-trifluorophenyl)propyl ester (CA INDEX NAME)

Absolute stereochemistry.



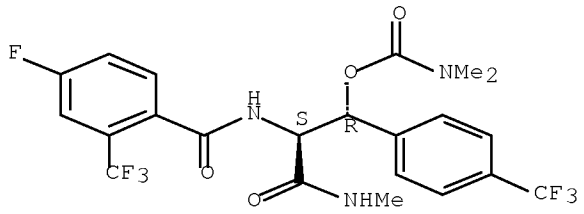
RN 857060-52-7 CAPLUS
CN Carbamic acid, dimethyl-, (1R,2S)-1-(4-fluorophenyl)-2-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-3-(methylamino)-3-oxopropyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



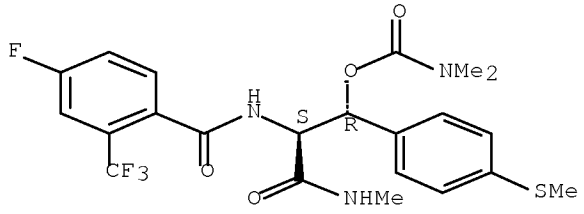
RN 857060-53-8 CAPLUS
CN Carbamic acid, dimethyl-, (1R,2S)-2-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-3-(methylamino)-3-oxo-1-[4-(trifluoromethyl)phenyl]propyl ester, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



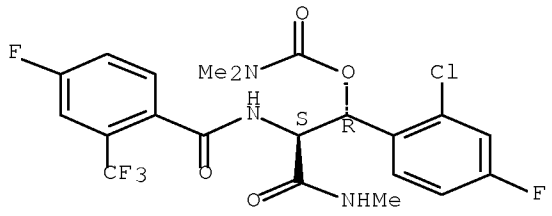
RN 857060-54-9 CAPLUS
CN Carbamic acid, dimethyl-, (1R,2S)-2-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-3-(methylamino)-1-[4-(methylthio)phenyl]-3-oxopropyl ester, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



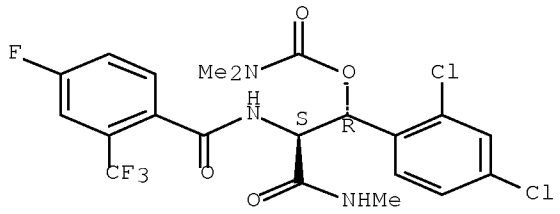
RN 857060-55-0 CAPLUS
CN Carbamic acid, dimethyl-, (1R,2S)-1-(2-chloro-4-fluorophenyl)-2-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-3-(methylamino)-3-oxopropyl ester, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



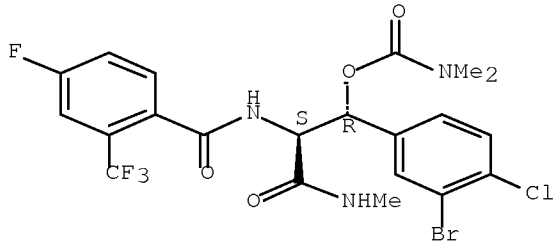
RN 857060-56-1 CAPLUS
CN Carbamic acid, dimethyl-, (1R,2S)-1-(2,4-dichlorophenyl)-2-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-3-(methylamino)-3-oxopropyl ester, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



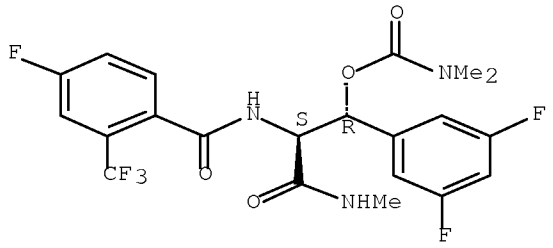
RN 857060-57-2 CAPLUS
CN Carbamic acid, dimethyl-, (1R,2S)-1-(3-bromo-4-chlorophenyl)-2-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-3-(methylamino)-3-oxopropyl ester, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



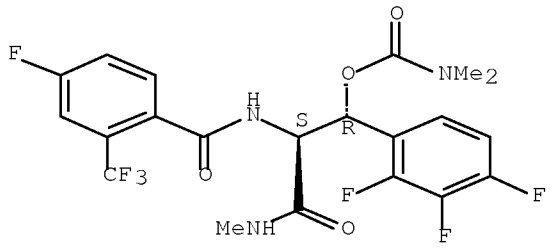
RN 857060-58-3 CAPLUS
CN Carbamic acid, dimethyl-, (1R,2S)-1-(3,5-difluorophenyl)-2-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-3-(methylamino)-3-oxopropyl ester, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



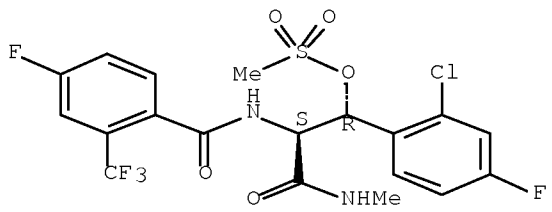
RN 857060-59-4 CAPLUS
CN Carbamic acid, dimethyl-, (1R,2S)-2-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-3-(methylamino)-3-oxo-1-(2,3,4-trifluorophenyl)propyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



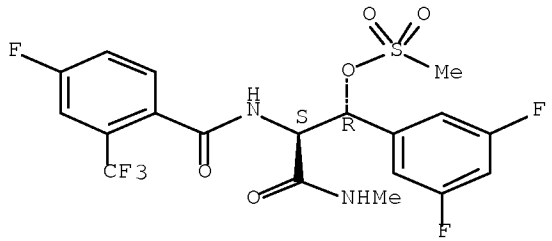
RN 857060-60-7 CAPLUS
CN Benzenepropanamide, 2-chloro-4-fluoro-α-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-N-methyl-β-[(methylsulfonyl)oxy]-, (αR,βS)-rel- (CA INDEX NAME)

Relative stereochemistry.



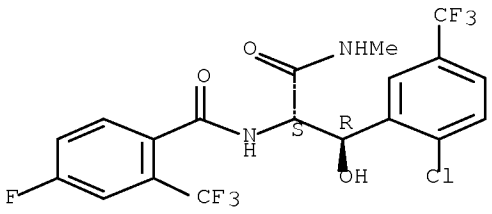
RN 857060-61-8 CAPLUS
CN Benzenepropanamide, 3,5-difluoro-α-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-N-methyl-β-[(methylsulfonyl)oxy]-, (αR,βS)-rel- (CA INDEX NAME)

Relative stereochemistry.



RN 857060-62-9 CAPLUS
CN Benzenepropanamide, 2-chloro-α-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-β-hydroxy-N-methyl-5-(trifluoromethyl)-, (αR,βS)-rel- (CA INDEX NAME)

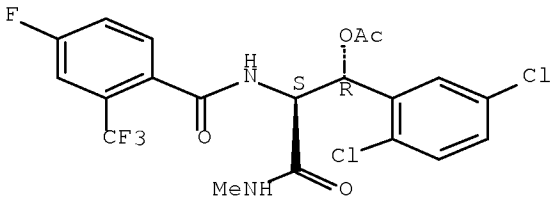
Relative stereochemistry.



RN 857060-63-0 CAPLUS

CN Benzenepropanamide, β-(acetyloxy)-2,5-dichloro-α-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-N-methyl-, (αR,βS)-rel- (CA INDEX NAME)

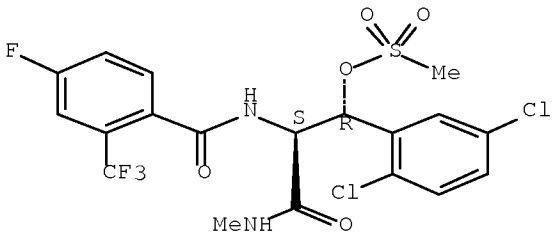
Relative stereochemistry.



RN 857060-64-1 CAPLUS

CN Benzenepropanamide, 2,5-dichloro-α-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-N-methyl-β-[(methylsulfonyl)oxy]-, (αR,βS)-rel- (CA INDEX NAME)

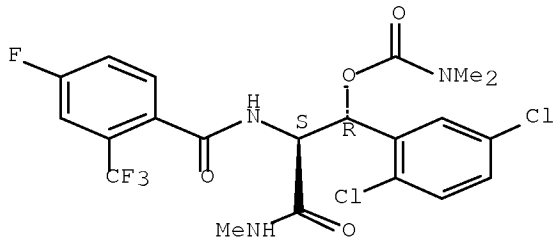
Relative stereochemistry.



RN 857060-66-3 CAPLUS

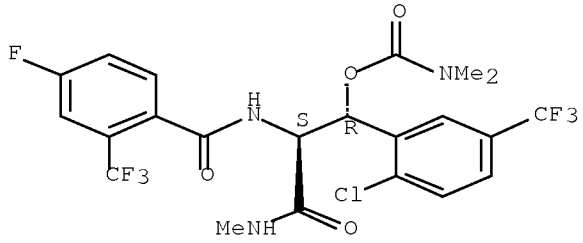
CN Carbamic acid, dimethyl-, (1R,2S)-1-(2,5-dichlorophenyl)-2-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-3-(methylamino)-3-oxopropyl ester, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



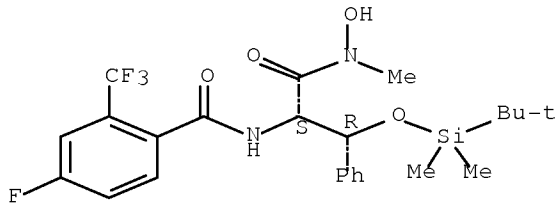
RN 857060-69-6 CAPLUS
CN Carbamic acid, dimethyl-, (1R,2S)-1-[2-chloro-5-(trifluoromethyl)phenyl]-2-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-3-(methylamino)-3-oxopropyl ester, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



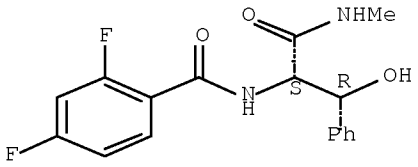
RN 857060-71-0 CAPLUS
CN Benzenepropanamide, β-[[(1,1-dimethylethyl)dimethylsilyl]oxy]-α-[[4-fluoro-2-(trifluoromethyl)benzoyl]amino]-N-hydroxy-N-methyl-, (αS,βR)- (CA INDEX NAME)

Absolute stereochemistry.



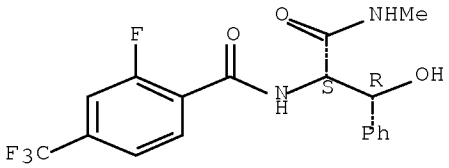
RN 857060-73-2 CAPLUS
CN Benzenepropanamide, α-[(2,4-difluorobenzoyl)amino]-β-hydroxy-N-methyl-, (αR,βS)-rel- (CA INDEX NAME)

Relative stereochemistry.



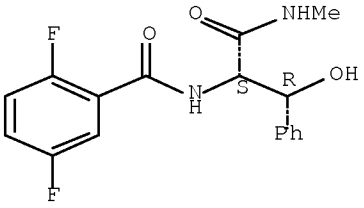
RN 857060-75-4 CAPLUS
CN Benzenepropanamide, α-[[2-fluoro-4-(trifluoromethyl)benzoyl]amino]-β-hydroxy-N-methyl-, (αR,βS)-rel- (CA INDEX NAME)

Relative stereochemistry.



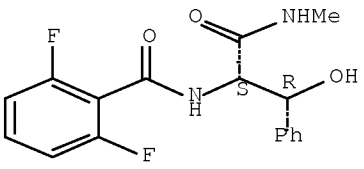
RN 857060-76-5 CAPLUS
CN Benzenepropanamide, α-[(2,5-difluorobenzoyl)amino]-β-hydroxy-N-methyl-, (αR,βS)-rel- (CA INDEX NAME)

Relative stereochemistry.



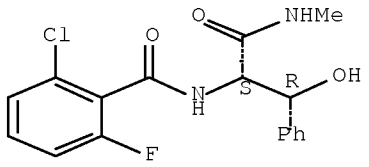
RN 857060-77-6 CAPLUS
CN Benzenepropanamide, α-[(2,6-difluorobenzoyl)amino]-β-hydroxy-N-methyl-, (αR,βS)-rel- (CA INDEX NAME)

Relative stereochemistry.



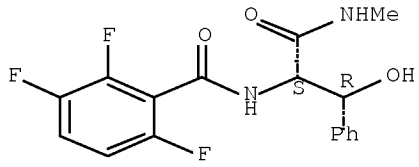
RN 857060-78-7 CAPLUS
CN Benzenepropanamide, α-[(2-chloro-6-fluorobenzoyl)amino]-β-hydroxy-N-methyl-, (αR,βS)-rel- (CA INDEX NAME)

Relative stereochemistry.



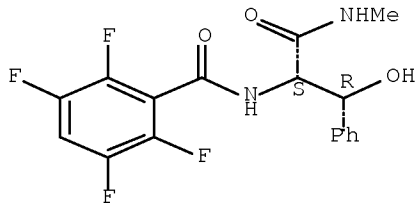
RN 857060-79-8 CAPLUS
CN Benzenepropanamide, β-hydroxy-N-methyl-α-[(2,3,6-trifluorobenzoyl)amino]-, (αR,βS)-rel- (CA INDEX NAME)

Relative stereochemistry.



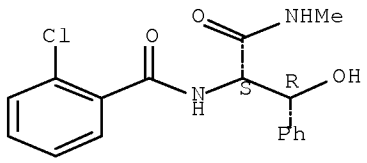
RN 857060-80-1 CAPLUS
CN Benzenepropanamide, β-hydroxy-N-methyl-α-[(2,3,5,6-tetrafluorobenzoyl)amino]-, (αR,βS)-rel- (CA INDEX NAME)

Relative stereochemistry.



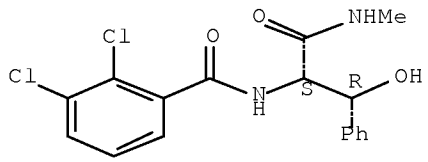
RN 857060-81-2 CAPLUS
CN Benzenepropanamide, α-[(2-chlorobenzoyl)amino]-β-hydroxy-N-methyl-, (αR,βS)-rel- (CA INDEX NAME)

Relative stereochemistry.



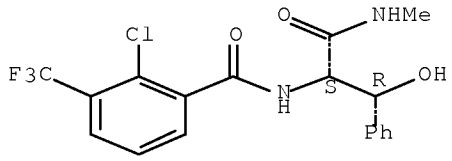
RN 857060-82-3 CAPLUS
CN Benzenepropanamide, α-[(2,3-dichlorobenzoyl)amino]-β-hydroxy-N-methyl-, (αR,βS)-rel- (CA INDEX NAME)

Relative stereochemistry.



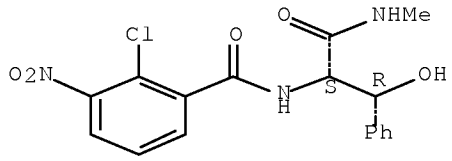
RN 857060-83-4 CAPLUS
CN Benzenepropanamide, α-[[2-chloro-3-(trifluoromethyl)benzoyl]amino]-β-hydroxy-N-methyl-, (αR,βS)-rel- (CA INDEX NAME)

Relative stereochemistry.



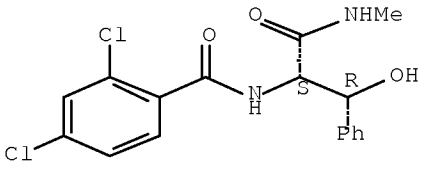
RN 857060-84-5 CAPLUS
CN Benzenepropanamide, α-[(2-chloro-3-nitrobenzoyl)amino]-β-hydroxy-N-methyl-, (αR,βS)-rel- (CA INDEX NAME)

Relative stereochemistry.



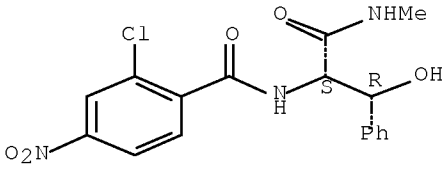
RN 857060-85-6 CAPLUS
CN Benzenepropanamide, α-[(2,4-dichlorobenzoyl)amino]-β-hydroxy-N-methyl-, (αR,βS)-rel- (CA INDEX NAME)

Relative stereochemistry.



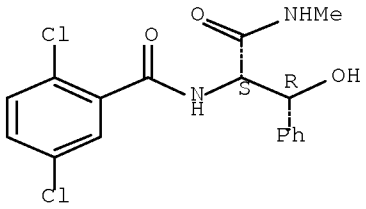
RN 857060-86-7 CAPLUS
CN Benzenepropanamide, α-[(2-chloro-4-nitrobenzoyl)amino]-β-hydroxy-N-methyl-, (αR,βS)-rel- (CA INDEX NAME)

Relative stereochemistry.



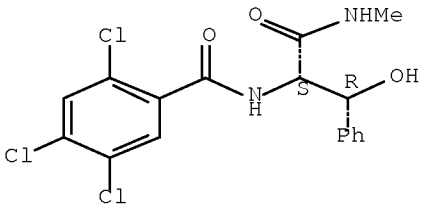
RN 857060-87-8 CAPLUS
CN Benzenepropanamide, α-[(2,5-dichlorobenzoyl)amino]-β-hydroxy-N-methyl-, (αR,βS)-rel- (CA INDEX NAME)

Relative stereochemistry.



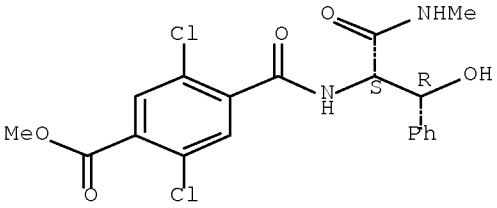
RN 857060-88-9 CAPLUS
CN Benzenepropanamide, β-hydroxy-N-methyl-α-[(2,4,5-trichlorobenzoyl)amino]-, (αR,βS)-rel- (CA INDEX NAME)

Relative stereochemistry.



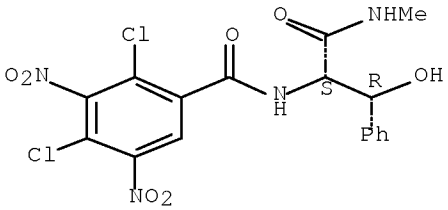
RN 857060-89-0 CAPLUS
CN Benzoic acid, 2,5-dichloro-4-[[[(1R,2S)-2-hydroxy-1-[(methylamino)carbonyl]-2-phenylethyl]amino]carbonyl]-, methyl ester, rel- (CA INDEX NAME)

Relative stereochemistry.



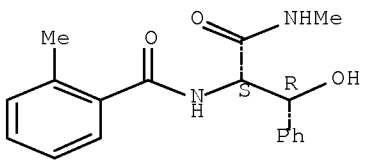
RN 857060-90-3 CAPLUS
CN Benzenepropanamide, α-[(2,4-dichloro-3,5-dinitrobenzoyl)amino]-β-hydroxy-N-methyl-, (αR,βS)-rel- (CA INDEX NAME)

Relative stereochemistry.



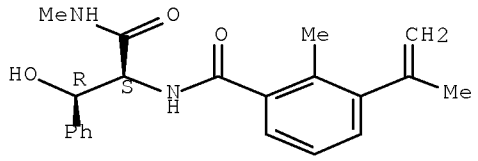
RN 857060-91-4 CAPLUS
CN Benzenepropanamide, β-hydroxy-N-methyl-α-[(2-methylbenzoyl)amino]-, (αR,βS)-rel- (CA INDEX NAME)

Relative stereochemistry.



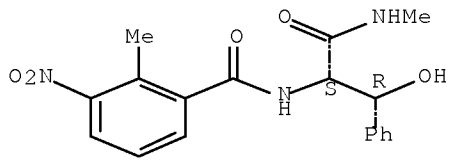
RN 857060-92-5 CAPLUS
CN Benzenepropanamide, β-hydroxy-N-methyl-α-[[2-methyl-3-(1-methylethenyl)benzoyl]amino]-, (αR,βS)-rel- (CA INDEX NAME)

Relative stereochemistry.



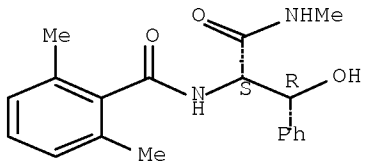
RN 857060-93-6 CAPLUS
CN Benzenepropanamide, β-hydroxy-N-methyl-α-[(2-methyl-3-nitrobenzoyl)amino]-, (αR,βS)-rel- (CA INDEX NAME)

Relative stereochemistry.



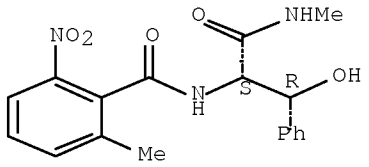
RN 857060-94-7 CAPLUS
CN Benzenepropanamide, α-[(2,6-dimethylbenzoyl)amino]-β-hydroxy-N-methyl-, (αR,βS)-rel- (CA INDEX NAME)

Relative stereochemistry.



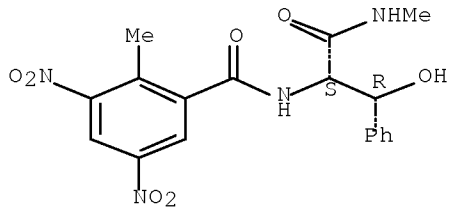
RN 857060-95-8 CAPLUS
CN Benzenepropanamide, β-hydroxy-N-methyl-α-[(2-methyl-6-nitrobenzoyl)amino]-, (αR,βS)-rel- (CA INDEX NAME)

Relative stereochemistry.



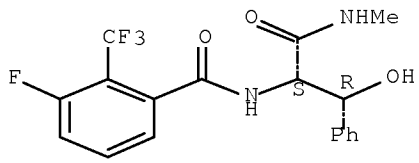
RN 857060-96-9 CAPLUS
CN Benzenepropanamide, β-hydroxy-N-methyl-α-[(2-methyl-3,5-dinitrobenzoyl)amino]-, (αR,βS)-rel- (CA INDEX NAME)

Relative stereochemistry.



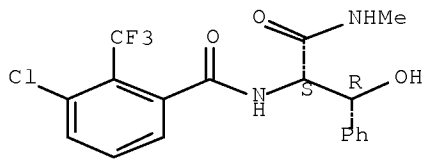
RN 857060-98-1 CAPLUS
CN Benzenepropanamide, α-[[3-fluoro-2-(trifluoromethyl)benzoyl]amino]-β-hydroxy-N-methyl-, (αR,βS)-rel- (CA INDEX NAME)

Relative stereochemistry.



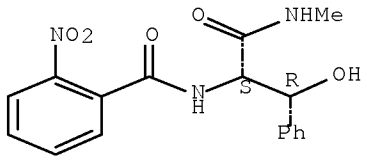
RN 857061-00-8 CAPLUS
CN Benzenepropanamide, α-[[3-chloro-2-(trifluoromethyl)benzoyl]amino]-β-hydroxy-N-methyl-, (αR,βS)-rel- (CA INDEX NAME)

Relative stereochemistry.



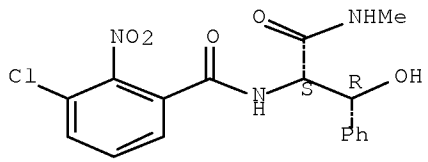
RN 857061-01-9 CAPLUS
CN Benzenepropanamide, β-hydroxy-N-methyl-α-[(2-nitrobenzoyl)amino]-, (αR,βS)-rel- (CA INDEX NAME)

Relative stereochemistry.



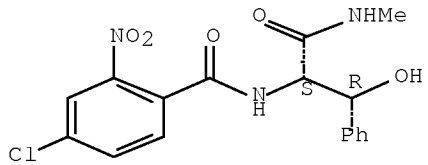
RN 857061-02-0 CAPLUS
CN Benzenepropanamide, α-[(3-chloro-2-nitrobenzoyl)amino]-β-hydroxy-N-methyl-, (αR,βS)-rel- (CA INDEX NAME)

Relative stereochemistry.



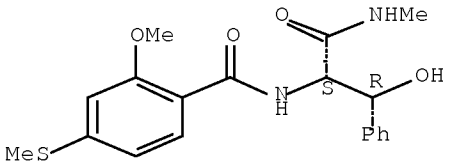
RN 857061-03-1 CAPLUS
CN Benzenepropanamide, α-[(4-chloro-2-nitrobenzoyl)amino]-β-hydroxy-N-methyl-, (αR,βS)-rel- (CA INDEX NAME)

Relative stereochemistry.



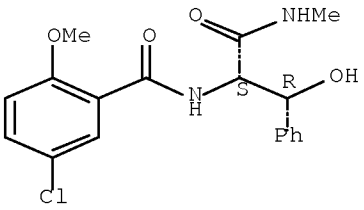
RN 857061-04-2 CAPLUS
CN Benzenepropanamide, β-hydroxy-α-[[2-methoxy-4-(methylthio)benzoyl]amino]-N-methyl-, (αR,βS)-rel- (CA INDEX NAME)

Relative stereochemistry.



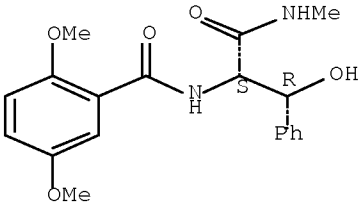
RN 857061-05-3 CAPLUS
CN Benzenepropanamide, α-[(5-chloro-2-methoxybenzoyl)amino]-β-hydroxy-N-methyl-, (αR,βS)-rel- (CA INDEX NAME)

Relative stereochemistry.



RN 857061-06-4 CAPLUS
CN Benzenepropanamide, α-[(2,5-dimethoxybenzoyl)amino]-β-hydroxy-N-methyl-, (αR,βS)-rel- (CA INDEX NAME)

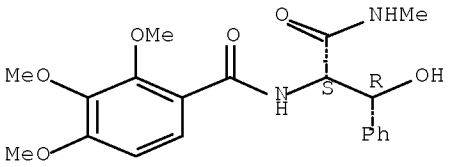
Relative stereochemistry.



IT 857061-07-5P 857061-08-6P 857061-09-7P
857061-10-0P 857061-11-1P 857061-12-2P
RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of substituted N-benzoylphenylalaninamides as herbicides)

RN 857061-07-5 CAPLUS
CN Benzenepropanamide, β-hydroxy-N-methyl-α-[(2,3,4-trimethoxybenzoyl)amino]-, (αR,βS)-rel- (CA INDEX NAME)

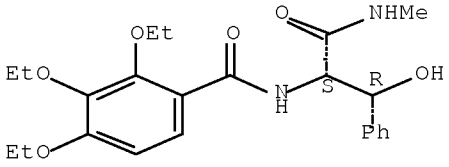
Relative stereochemistry.



RN 857061-08-6 CAPLUS

CN Benzenepropanamide, β-hydroxy-N-methyl-α-[(2,3,4-triethoxybenzoyl)amino]-, (αR,βS)-rel- (CA INDEX NAME)

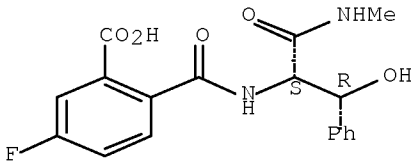
Relative stereochemistry.



RN 857061-09-7 CAPLUS

CN Benzoic acid, 5-fluoro-2-[[[(1R,2S)-2-hydroxy-1-[(methylamino)carbonyl]-2-phenylethyl]amino]carbonyl]-, rel- (CA INDEX NAME)

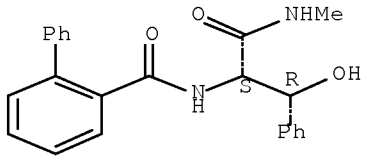
Relative stereochemistry.



RN 857061-10-0 CAPLUS

CN Benzenepropanamide, α-[([1,1'-biphenyl]-2-ylcarbonyl)amino]-β-hydroxy-N-methyl-, (αR,βS)-rel- (CA INDEX NAME)

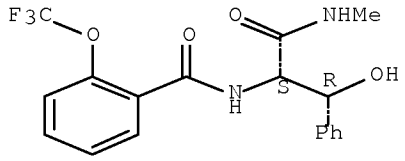
Relative stereochemistry.



RN 857061-11-1 CAPLUS

CN Benzenepropanamide, β-hydroxy-N-methyl-α-[[2-(trifluoromethoxy)benzoyl]amino]-, (αR,βS)-rel- (CA INDEX NAME)

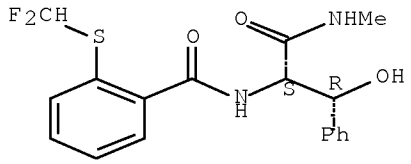
Relative stereochemistry.



RN 857061-12-2 CAPLUS

CN Benzenepropanamide, α-[[2-[(difluoromethyl)thio]benzoyl]amino]-β-hydroxy-N-methyl-, (αR,βS)-rel- (CA INDEX NAME)

Relative stereochemistry.



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 6 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2004:610055 CAPLUS Full-text

DOCUMENT NUMBER: 141:157473

TITLE: Preparation of amino acid derivatives as antibacterial agents

INVENTOR(S): Anderson, Neils H.; Bowman, Jason; Erwin, Alice; Harwood, Eric; Kline, Toni; Mdluli, Khisimuzi; Ng, Simon; Pfister, Keith B.; Shawar, Ribhi; Wagman, Allan; Yabannavar, Asha

PATENT ASSIGNEE(S): Chiron Corporation, USA

SOURCE: PCT Int. Appl., 324 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004062601	A2	20040729	WO 2004-US433	20040108
WO 2004062601	A3	20050421		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ				
AU 2004204760	A1	20040729	AU 2004-204760	20040108

CA 2512582	A1	20040729	CA 2004-2512582		20040108
US 20040229955	A1	20041118	US 2004-754928		20040108
EP 1618087	A2	20060125	EP 2004-700887		20040108
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK					
CN 1777577	A	20060524	CN 2004-80005935		20040108
JP 2006519772	T	20060831	JP 2006-500858		20040108
MX 2005007394	A	20050912	MX 2005-7394		20050707
IN 2005KN01343	A	20060915	IN 2005-KN1343		20050712
US 20060154988	A1	20060713	US 2005-187708		20050722
US 7358359	B2	20080415			
US 20070244197	A1	20071018	US 2006-417346		20060503
US 20080269221	A1	20081030	US 2007-837327		20070810
PRIORITY APPLN. INFO.:			US 2003-438523P	P	20030108
			US 2003-466974P	P	20030430
			US 2003-520211P	P	20031113
			US 2004-754928	A1	20040108
			WO 2004-US433	W	20040108

OTHER SOURCE(S): MARPAT 141:157473

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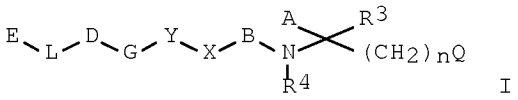
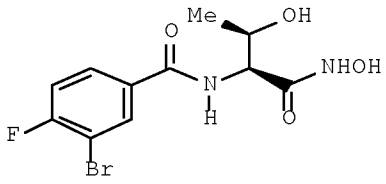


I



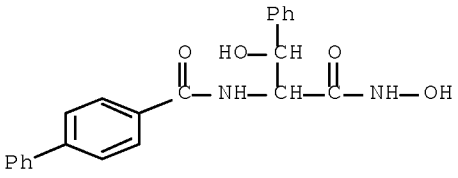
II

AB Title compds. I [E = absent or H, (un)substituted-alkyl, -alkenyl, -aryl, etc.; L = absent or CONH, NHCO, (un)substituted alkyl, etc.; D = absent or (un)substituted-cycloalkyl, -aryl, -heterocyclyl or -heteroaryl; G = absent or alkene, alkyne, CO, etc.; Y = (un)substituted-cycloalkyl, -aryl, -heterocyclyl or -heteroaryl; X = CO, alkylcarbonyl, alkenylcarbonyl, alkynylcarbonyl, methylene, or when B is absent X and A together form heterocyclic ring; B = absent or substituted aminoalkylcarbonyl; R3 = H or (un)substituted alkyl, or R3 and A together form a cycloalkyl or heterocyclic ring; R4 = H or (un)substituted alkyl, or R4 and A together form a heterocyclic ring; n = 0-2; A = H, acetylene, alkyl, etc.; Q = absent or substituted amide, SH, SO2NH2, CO2H, etc.] are disclosed: As well as stereoisomers, pharmaceutically acceptable salts, esters, and prodrugs thereof; pharmaceutical compns. comprising such compds.; methods of treating bacterial infections by the administration of such compds.; and processes for the preparation of the compds. Thus, e.g., II was prepared via amidation of 3-bromo-4-fluorobenzoic acid with L-threonine Me ester hydrochloride followed by substitution with hydroxylamine hydrochloride. This invention pertains generally to treating infections caused by gram-neg. bacteria. More specifically, the invention described pertains to treating gram-neg. infections by inhibiting activity of UDP-3-O-(R-3-hydroxydecanoyl)-N-acetylglucosamine deacetylase (LpxC). Many of I displayed an IC50 value of less than 10 μM with respect to inhibition of LpxC.

IT 728867-74-1P 728877-95-0P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(drug candidate; preparation of amino acid derivs. as antibacterial agents)

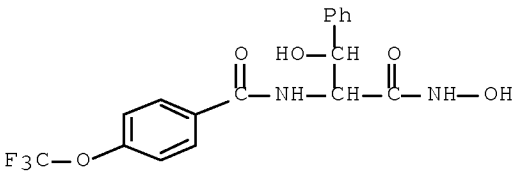
RN 728867-74-1 CAPLUS

CN Benzenepropanamide, α-[([1,1'-biphenyl]-4-ylcarbonyl)amino]-N,β-dihydroxy- (CA INDEX NAME)



RN 728877-95-0 CAPLUS

CN Benzenepropanamide, N,β-dihydroxy-α-[[4-(trifluoromethoxy)benzoyl]amino]- (CA INDEX NAME)



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 7 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2000:839445 CAPLUS Full-text

DOCUMENT NUMBER: 134:131796

TITLE: Selective side chain introduction onto small peptides mediated by samarium diiodide: a potential route to peptide libraries

AUTHOR(S): Ricci, Marina; Blakskjr, Peter; Skrydstrup, Troels

CORPORATE SOURCE: Department of Chemistry, University of Aarhus, Aarhus, 8000, Den.

SOURCE: Journal of the American Chemical Society (2000), 122(50), 12413-12421
CODEN: JACSAT; ISSN: 0002-7863

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 134:131796

AB A mild and simple method for the selective introduction of carbinol side chains onto glycine residues in peptides is presented as a potential route for the preparation of peptide libraries. A series of di- and tripeptides, as well as one tetrapeptide, each possessing one glycine residue, was first selectively functionalized at the glycine unit by a two-step sequence

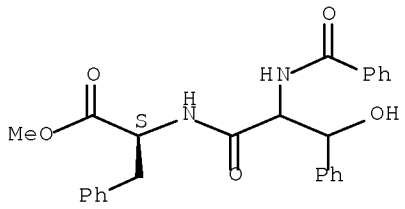
involving bromination with N-bromosuccinimide and then sulfide formation by treatment of the unstable 2-bromoglycine with 2-mercaptopyridine. These modified peptides were then reduced with samarium diiodide at room temperature in the presence of alkyl aldehydes and ketones, affording a series of peptides containing serine/threonine derivs. as new functionalities in yields of 40-65%. These reactions are quite efficient, considering the presence of as many as four amide protons in the enolate intermediate. The diastereoselectivities of these reactions are low or nonexistent, which is ascribed to either (a) the formation of single enolate, where the neighboring chiral centers impart no influence in the alkylation step or (b) the generation of an enolate mixture, where each stereoisomer leads to opposite enantiomers with respect to the newly formed amino acid upon alkylation. The successful nonselective double alkylation of the tripeptide, PhCO-Gly-Val-Gly-OMe, suggests the possibility that the reductive samariation approach to the C-alkylation of peptides may be a viable route for the preparation of peptide libraries based on multiple serine/threonine derivs. Finally, a preliminary investigation on one peptide has shown that the addition of 1% of nickel(II) iodide to these condensation reactions has a significant effect on the coupling yields.

IT 321970-95-0P
RL: SPN (Synthetic preparation); PREP (Preparation)
(selective introduction of carbinol side chains for glycine residues in small peptides using samarium diiodide-induced Reformatskii reaction)

RN 321970-95-0 CAPLUS

CN L-Phenylalanine, N-benzoyl-β-hydroxyphenylalanyl-, methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 107 THERE ARE 107 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 8 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1999:457798 CAPLUS Full-text

DOCUMENT NUMBER: 131:228963

TITLE: Reductive ring cleavage of 1-alkyl-4-benzoylamino-5-phenyl-3-pyrazolidinones with raney-nickel alloy. Synthesis of N-benzoyl-3-alkylamino-3-phenylalanine amides from rel-(4R,5R)-4-benzoylamino-5-phenyl-3-pyrazolidinone

AUTHOR(S): Zupancic, Silvo; Svete, Jurij; Stanovnik, Branko

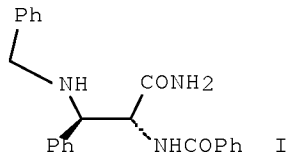
CORPORATE SOURCE: Faculty of Chemistry and Chemical Technology, University of Ljubljana, Ljubljana, 1000, Slovenia

SOURCE: Journal of Heterocyclic Chemistry (1999), 36(3), 607-610
CODEN: JHTCAD; ISSN: 0022-152X

PUBLISHER: HeteroCorporation

DOCUMENT TYPE: Journal

LANGUAGE: English
OTHER SOURCE(S): CASREACT 131:228963
GI



I

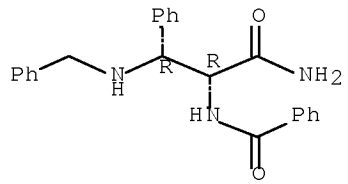
AB Rel-(4R,5R)-4-Benzoylamino-5-phenyl-3-pyrazolidinone was alkylated at position 1 with carbonyl compds. The corresponding rel-(4R,5R)-4-benzoylamino-5-phenyl-3-pyrazolidinone-1-azomethine imines were treated with sodium borohydride to give rel-(4R,5R)-1-alkyl-4-benzoylamino-5-phenyl-3-pyrazolidinones. Reduction of pyrazolidinones with Raney-nickel alloy in methanolic potassium hydroxide furnished rel-(4R,5R)-N-benzoyl-3-alkylamino-3-phenylalanine amides, e.g. I.

IT 243842-77-5P 243842-78-6P 243842-79-7P
243842-80-0P 243842-81-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
(reductive ring cleavage of alkylated pyrazolidinones with raney-nickel alloy in synthesis of amino acids amides)

RN 243842-77-5 CAPLUS

CN Benzenepropanamide, α-(benzoylamino)-β-[(phenylmethyl)amino]-, (αR,βR)-rel- (CA INDEX NAME)

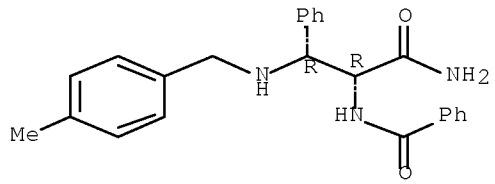
Relative stereochemistry.



RN 243842-78-6 CAPLUS

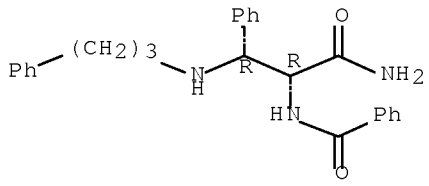
CN Benzenepropanamide, α-(benzoylamino)-β-[[(4-methylphenyl)methyl]amino]-, (αR,βR)-rel- (CA INDEX NAME)

Relative stereochemistry.



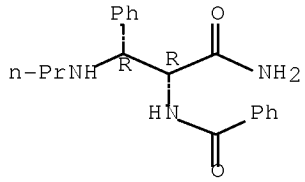
RN 243842-79-7 CAPLUS
CN Benzenepropanamide, α-(benzoylamino)-β-[(3-phenylpropyl)amino]-, (αR,βR)-rel- (CA INDEX NAME)

Relative stereochemistry.



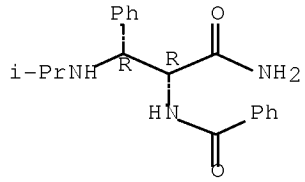
RN 243842-80-0 CAPLUS
CN Benzenepropanamide, α-(benzoylamino)-β-(propylamino)-, (αR,βR)-rel- (CA INDEX NAME)

Relative stereochemistry.



RN 243842-81-1 CAPLUS
CN Benzenepropanamide, α-(benzoylamino)-β-[(1-methylethyl)amino]-, (αR,βR)-rel- (CA INDEX NAME)

Relative stereochemistry.



REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 9 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1998:752302 CAPLUS Full-text
DOCUMENT NUMBER: 130:125016
TITLE: 4-Amino-substituted 3-pyrazolidinones: their synthesis, reactions, and stereoselectivity
AUTHOR(S): Svete, Jurij; Grum, Primoz; Preseren, Andrej;

Zupancic, Silvo; Toplak, Renata; Turk, Cvetka; Stanovnik, Branko

CORPORATE SOURCE: Fakulteta za kemijo in kemijsko tehnologijo, Univerza v Ljubljani, Ljubljana, Slovenia

SOURCE: Zbornik Referatov s Posvetovanja Slovenski Kemijski Dnevi. Maribor, Slovenia, Sept. 17-18, 1998 (1998), 192-197. Editor(s): Glavic, Peter; Brodnjak-Voncina, Darinka. Fakulteta za Kemijo in Kemijsko Tehnologijo Univerze v Mariboru: Maribor, Slovenia. CODEN: 66ZNAA

DOCUMENT TYPE: Conference

LANGUAGE: Slovenian

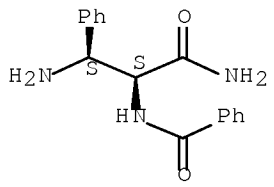
AB A conference report. Reaction of rel-(4R,5R)-4-(benzoylamino)-5-phenyl-3-pyrazolidinone with aldehydes and ketones leads to azomethinimines, which can be used for the preparation of 1-alkylated 3-pyrazolidinones. N-N bond cleavage in 1-alkyl-3-pyrazolidinones affords N-benzoyl-3-(alkylamino)-3-phenylalanine amides. On the other hand, 1,3-dipolar cycloaddns. of the azomethinimines to various dipolarophiles give pyrazolo[1,2-a]pyrazoles. The cycloaddns. proceed with a high degree of regio- and stereoselectivity.

IT 219808-28-3DP, N-alkyl derivs.
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 219808-28-3 CAPLUS

CN Benzenepropanamide, β-amino-α-(benzoylamino)-, (αR,βR)-rel- (CA INDEX NAME)

Relative stereochemistry.



L3 ANSWER 10 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1996:29053 CAPLUS Full-text

DOCUMENT NUMBER: 124:139613

ORIGINAL REFERENCE NO.: 124:25811a,25814a

TITLE: Investigation of the active site of oligosaccharyltransferase from pig liver using synthetic tripeptides as tools

AUTHOR(S): Bause, Ernst; Breuer, Wilhelm; Peters, Sabine

CORPORATE SOURCE: Inst. Physiologische Chemie, Bonn, 53115, Germany

SOURCE: Biochemical Journal (1995), 312(3), 979-85
CODEN: BIJOAK; ISSN: 0264-6021

PUBLISHER: Portland Press

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Oligosaccharyltransferase (I), an integral component of the endoplasmic reticulum membrane, catalyzes the transfer of dolichyl diphosphate-linked oligosaccharides to specific Asn residues forming part of the Asn-Xaa-Thr/Ser sequence. Here, the authors studied the binding and catalytic properties of I from pig liver using peptide analogs derived from the acceptor peptide, N-benzoyl-Asn-Gly-Thr-NHCH3, by replacing either Asn or Thr with amino acids

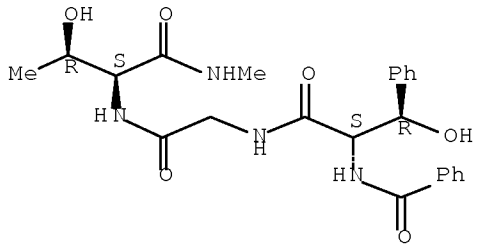
differing in size, stereochem., polarity, and ionic properties. Acceptor studies showed that analogs of Asn and Thr with bulkier side-chains impaired recognition by I. Reduction of the β-amide carbonyl group of Asn yielded a derivative that, although not glycosylated, was strongly inhibitory (50% inhibition at .apprx.140 μM). This inhibition may be due to ion-pair formation involving the NH3+ group and a neg. charged base at the active site. Hydroxylation of Asn at the β-C position increased the Km and decreased the Vmax, indicating an effect on both binding and catalysis. The threo configuration at the β-C atom of the hydroxyamino acid was essential for substrate binding. A peptide derivative obtained by replacement of the Thr β-OH group with an NH2 group was found to display acceptor activity. This shows that the primary amine is able to mimic the OH group during transglycosylation. The pH optimum with this derivative was shifted by .apprx.1 pH unit toward the basic region, indicating that the neutral NH2 group is the reactive species. The results were discussed in terms of the catalytic mechanism of I, particular emphasis being placed on the role of Thr/Ser in increasing the nucleophilicity of the β-amide of Asn through H-bonding.

IT 173267-42-0P
RL: BPR (Biological process); BSU (Biological study, unclassified); PRP (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); PROC (Process)
(study of active site of oligosaccharyltransferase from pig liver using synthetic tripeptides as substrate analogs)

RN 173267-42-0 CAPLUS

CN L-Threoninamide, N-benzoyl-threo-β-hydroxy-L-phenylalanylglycyl-N-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L3 ANSWER 11 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1995:1003913 CAPLUS Full-text
DOCUMENT NUMBER: 124:202973
ORIGINAL REFERENCE NO.: 124:37545a,37548a
TITLE: Gold(I)-catalyzed asymmetric aldol reactions of isocyanoacetic acid derivatives with fluoroaryl aldehydes
AUTHOR(S): Soloshonok, Vadim A.; Kacharov, Alexey D.; Hayashi, Tamio
CORPORATE SOURCE: Inst. Bioorg. Chem. Petrochem., Ukrainian Acad. Sci., Kiev, 253160, Ukraine
SOURCE: Tetrahedron (1996), 52(1), 245-54
CODEN: TETRAB; ISSN: 0040-4020
PUBLISHER: Elsevier
DOCUMENT TYPE: Journal

LANGUAGE: English

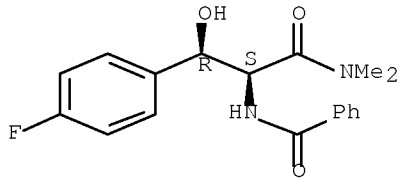
AB The catalytic asym. synthesis of stereochem. defined fluorophenylserines was reported. In the title reaction, when Me isocyanoacetate was used, the number of fluorine atoms in the Ph ring of benzaldehyde controlled the stereochem. outcome of the reaction giving rise in the case of monofluorobenzaldehydes corresponding trans-oxazolines with >90% trans-selectivity and >90% enantiomeric excess, while in the case of polyfluorobenzaldehydes corresponding cis-oxazolines were formed as dominant isomers with high enantiomeric excess (up to 63% cis isomers with 86-90% enantiomeric excess). In contrast to this, aldol reactions of isocyanoacetamide with fluorobenzaldehydes provided dominant formation of trans-oxazolines (77-92% of trans isomers and 80-94% enantiomeric excess) in all cases studied. The observed unusual stereodifferentiation in the reaction of Me isocyanoacetate with polyfluorobenzaleehydes was rationalized on the basis of an electron donor-acceptor type attractive interaction between the polyfluorophenyl ring and the enolate oxygen. One of the target (fluorophenyl)serines thus prepared was threo-4-fluoro-β-hydroxy-L-phenylalanine.

IT 174075-97-9P 174175-49-6P 174175-50-9P
174175-51-0P 174175-52-1P 174175-53-2P
174175-54-3P 174175-55-4P 174175-56-5P
174388-77-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 174075-97-9 CAPLUS

CN Benzenepropanamide, α-(benzoylamino)-4-fluoro-β-hydroxy-N,N-dimethyl-, [R-(R*,S*)]- (9CI) (CA INDEX NAME)

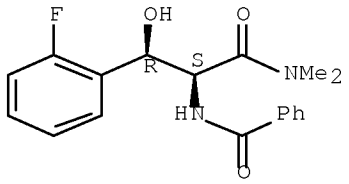
Absolute stereochemistry.



RN 174175-49-6 CAPLUS

CN Benzenepropanamide, α-(benzoylamino)-2-fluoro-β-hydroxy-N,N-dimethyl-, [R-(R*,S*)]- (9CI) (CA INDEX NAME)

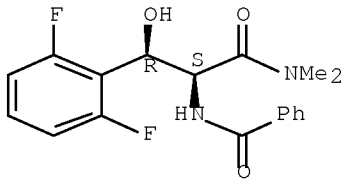
Absolute stereochemistry.



RN 174175-50-9 CAPLUS

CN Benzenepropanamide, α-(benzoylamino)-2,6-difluoro-β-hydroxy-N,N-dimethyl-, [R-(R*,S*)]- (9CI) (CA INDEX NAME)

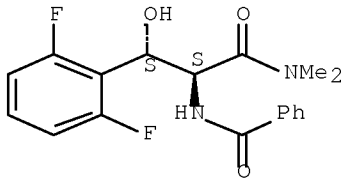
Absolute stereochemistry.



RN 174175-51-0 CAPLUS

CN Benzenepropanamide, α-(benzoylamino)-2,6-difluoro-β-hydroxy-N,N-dimethyl-, [S-(R*,R*)]- (9CI) (CA INDEX NAME)

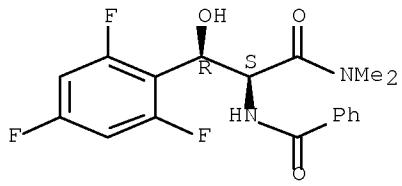
Absolute stereochemistry.



RN 174175-52-1 CAPLUS

CN Benzenepropanamide, α-(benzoylamino)-2,4,6-trifluoro-β-hydroxy-N,N-dimethyl-, [R-(R*,S*)]- (9CI) (CA INDEX NAME)

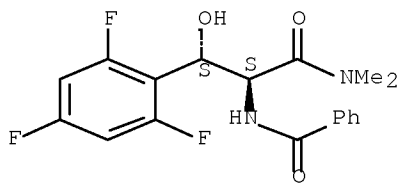
Absolute stereochemistry.



RN 174175-53-2 CAPLUS

CN Benzenepropanamide, α-(benzoylamino)-2,4,6-trifluoro-β-hydroxy-N,N-dimethyl-, [S-(R*,R*)]- (9CI) (CA INDEX NAME)

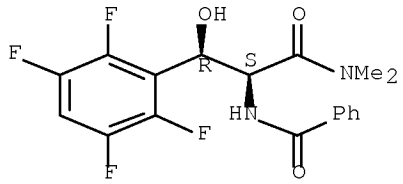
Absolute stereochemistry.



RN 174175-54-3 CAPLUS

CN Benzenepropanamide, α-(benzoylamino)-2,3,5,6-tetrafluoro-β-hydroxy-N,N-dimethyl-, [R-(R*,S*)]- (9CI) (CA INDEX NAME)

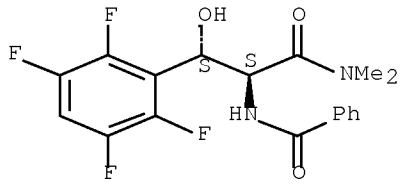
Absolute stereochemistry.



RN 174175-55-4 CAPLUS

CN Benzenepropanamide, α-(benzoylamino)-2,3,5,6-tetrafluoro-β-hydroxy-N,N-dimethyl-, [S-(R*,R*)]- (9CI) (CA INDEX NAME)

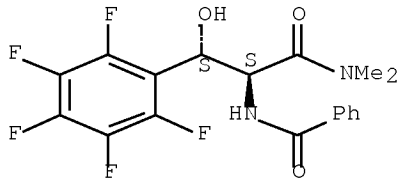
Absolute stereochemistry.



RN 174175-56-5 CAPLUS

CN Benzenepropanamide, α-(benzoylamino)-2,3,4,5,6-pentafluoro-β-hydroxy-N,N-dimethyl-, [S-(R*,R*)]- (9CI) (CA INDEX NAME)

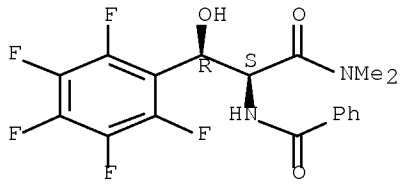
Absolute stereochemistry.



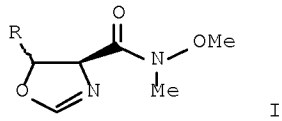
RN 174388-77-3 CAPLUS

CN Benzenepropanamide, α-(benzoylamino)-2,3,4,5,6-pentafluoro-β-hydroxy-N,N-dimethyl-, [R-(R*,S*)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L3 ANSWER 12 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1995:433742 CAPLUS Full-text
DOCUMENT NUMBER: 123:9366
ORIGINAL REFERENCE NO.: 123:1970h,1971a
TITLE: Gold(I)-Catalyzed Asymmetric Aldol Reaction of N-Methoxy-N-methyl-α-isocyanoacetamide (α-Isocyano Weinreb Amide). An Efficient Synthesis of Optically Active β-Hydroxy α-Amino Aldehydes and Ketones
AUTHOR(S): Sawamura, Masaya; Nakayama, Yuki; Kato, Tomoki; Ito, Yoshihiko
CORPORATE SOURCE: Faculty of Engineering, Kyoto University, Kyoto, 606-01, Japan
SOURCE: Journal of Organic Chemistry (1995), 60(6), 1727-32
CODEN: JOCEAH; ISSN: 0022-3263
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 123:9366
GI



I

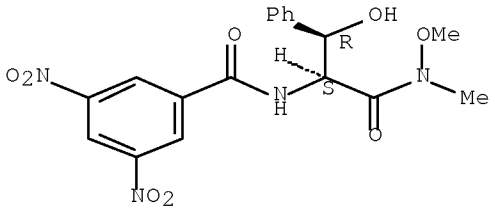
AB Asym. aldol reaction of N-methoxy-N-methyl-α-isocyanoacetamide (α-isocyano Weinreb amide) with aldehydes [RCHO: R = Ph, Me, i-Pr, (E)-MeCH:CH, (E)-BnOCH2CH:CH] in the presence of an Au(I) catalyst prepared in situ from [Au(c-HexNC)2]BF4 and chiral ferrocenylphosphine ligand (R)-N-methyl-N-(2-morpholinoethyl)-1-[(S)-1'-2- bis(diphenylphosphino)ferrocenyl]ethylamine gave high yields of optically active trans-5-alkyl-2-oxazoline-4-(N-methoxy-N-methylcarboxamides) I (same R) with high diastereo- and enantioselectivities. The diastereoselectivities (trans:cis) and enantiomeric excesses of the trans-oxazolines for the reaction with 1 mol % of the catalyst are as follows: R = Ph, 97:3, 96% ee; R = Me, 95:5, 97% ee; R = i-Pr, 98:2, 97% ee; R = (E)-MeCH:CH, 97:3; 99% ee; (E)-BnOCH2CH:CH, 96:4, 95% ee. These optically active oxazolines were converted to N,O-protected β-hydroxy-α-amino aldehydes and ketones in high yields. An N-protected α-amino aldehyde (R = Ph) lacking the β-hydroxyl group was also obtained through the catalytic hydrogenolysis of the oxazoline.
IT 163625-35-2P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and reactions of chiral oxazoline(methoxy)carboxamides)

RN 163625-35-2 CAPLUS

CN Benzenepropanamide, α-[(3,5-dinitrobenzoyl)amino]-β-hydroxy-N-methoxy-N-methyl-, [R-(R*,S*)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L3 ANSWER 13 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1994:534014 CAPLUS Full-text

DOCUMENT NUMBER: 121:134014

ORIGINAL REFERENCE NO.: 121:24229a,24232a

TITLE: Gold(I)-catalyzed asymmetric aldol reactions of fluorinated benzaldehydes with an α-isocyanoacetamide

AUTHOR(S): Soloshonok, Vadim A.; Hayashi, Tamio

CORPORATE SOURCE: Catalysis Res. Center, Hokkaido Univ., Sapporo, 060, Japan

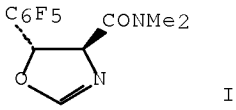
SOURCE: Tetrahedron: Asymmetry (1994), 5(6), 1091-4
CODEN: TASYE3; ISSN: 0957-4166

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 121:134014

GI



I

AB The use of N,N-dimethyl-α-isocyanoacetamide instead of Me α-isocyanoacetate in the Au(I)-catalyzed asym. aldol reactions with polyfluorinated benzaldehydes was found to improve both diastereo- and enantioselectivity in the formation of trans-oxazolines, e.g., I.

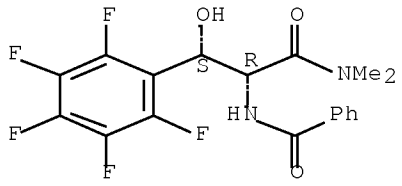
IT 157042-84-7P 157042-85-8P 157042-86-9P
157042-87-0P 157042-88-1P 157042-89-2P
157042-90-5P 157042-91-6P 157042-92-7P
157042-93-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 157042-84-7 CAPLUS

CN Benzenepropanamide, α-(benzoylamino)-2,3,4,5,6-pentafluoro-β-

hydroxy-N,N-dimethyl-, (R*,S*)- (9CI) (CA INDEX NAME)

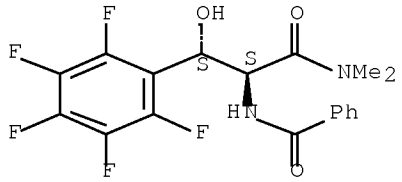
Relative stereochemistry.



RN 157042-85-8 CAPLUS

CN Benzenepropanamide, α-(benzoylamino)-2,3,4,5,6-pentafluoro-β-hydroxy-N,N-dimethyl-, (R*,R*)- (9CI) (CA INDEX NAME)

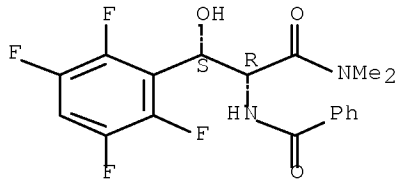
Relative stereochemistry.



RN 157042-86-9 CAPLUS

CN Benzenepropanamide, α-(benzoylamino)-2,3,5,6-tetrafluoro-β-hydroxy-N,N-dimethyl-, (R*,S*)- (9CI) (CA INDEX NAME)

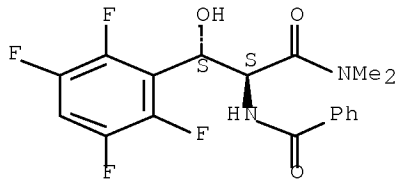
Relative stereochemistry.



RN 157042-87-0 CAPLUS

CN Benzenepropanamide, α-(benzoylamino)-2,3,5,6-tetrafluoro-β-hydroxy-N,N-dimethyl-, (R*,R*)- (9CI) (CA INDEX NAME)

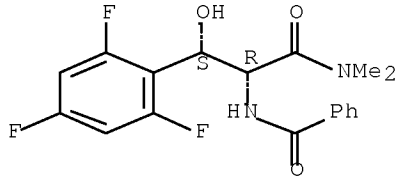
Relative stereochemistry.



RN 157042-88-1 CAPLUS

CN Benzenepropanamide, α-(benzoylamino)-2,4,6-trifluoro-β-hydroxy-N,N-dimethyl-, (R*,S*)- (9CI) (CA INDEX NAME)

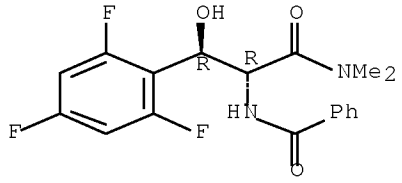
Relative stereochemistry.



RN 157042-89-2 CAPLUS

CN Benzenepropanamide, α-(benzoylamino)-2,4,6-trifluoro-β-hydroxy-N,N-dimethyl-, (R*,R*)- (9CI) (CA INDEX NAME)

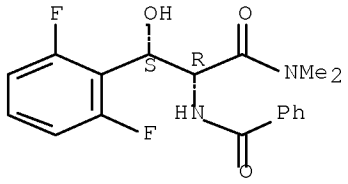
Relative stereochemistry.



RN 157042-90-5 CAPLUS

CN Benzenepropanamide, α-(benzoylamino)-2,6-difluoro-β-hydroxy-N,N-dimethyl-, (R*,S*)- (9CI) (CA INDEX NAME)

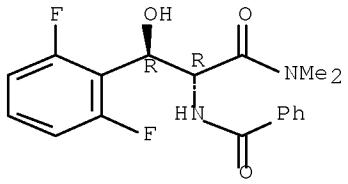
Relative stereochemistry.



RN 157042-91-6 CAPLUS

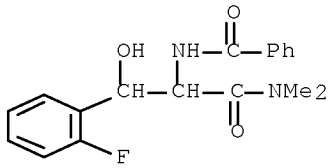
CN Benzenepropanamide, α-(benzoylamino)-2,6-difluoro-β-hydroxy-N,N-dimethyl-, (R*,R*)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



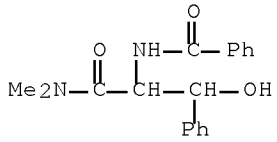
RN 157042-92-7 CAPLUS

CN Benzenepropanamide, α-(benzoylamino)-2-fluoro-β-hydroxy-N,N-dimethyl- (CA INDEX NAME)



RN 157042-93-8 CAPLUS

CN Benzenepropanamide, α-(benzoylamino)-β-hydroxy-N,N-dimethyl- (CA INDEX NAME)



L3 ANSWER 14 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1990:158113 CAPLUS Full-text

DOCUMENT NUMBER: 112:158113

ORIGINAL REFERENCE NO.: 112:26727a,26730a

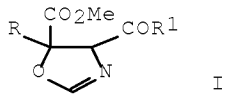
TITLE: Asymmetric aldol reaction of α-keto esters with isocyanoacetate and isocyanoacetamide catalyzed by a chiral ferrocenylphosphine-gold(I) complex

AUTHOR(S): Ito, Yoshihiko; Sawamura, Masaya; Hamashima, Hitoshi; Emura, Takashi; Hayashi, Tamio

CORPORATE SOURCE: Dep. Synth. Chem., Kyoto Univ., Kyoto, 606, Japan

SOURCE: Tetrahedron Letters (1989), 30(35), 4681-4
CODEN: TELEAY; ISSN: 0040-4039

DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 112:158113
GI



I

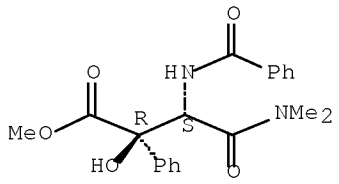
AB Asym. aldol reaction of α-keto esters (RCOCO2Me: R = Me, Me2CHCH2, Ph) with Me isocyanoacetate or N,N-dimethyl-α-isocyanoacetamide in the presence of 1 mol% of a chiral (aminoalkyl)ferrocenylphosphine-gold(I) catalyst proceeded with high enantioselectivity to give oxazolines I (R as above, R1 = OMe, NMe2) of up to 90% enantiomeric excess . I were converted to optcally active β-alkyl-β-hydroxyaspartic acid derivs.

IT 126106-23-8P 126106-24-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 126106-23-8 CAPLUS

CN Benzeneacetic acid, α-[1-(benzoylamino)-2-(dimethylamino)-2-oxoethyl]-α-hydroxy-, methyl ester, [R-(R*,S*)]- (9CI) (CA INDEX NAME)

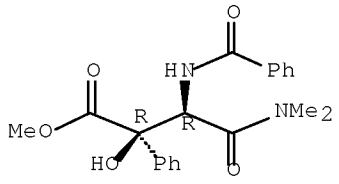
Absolute stereochemistry.



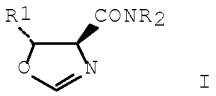
RN 126106-24-9 CAPLUS

CN Benzeneacetic acid, α-[1-(benzoylamino)-2-(dimethylamino)-2-oxoethyl]-α-hydroxy-, methyl ester, [R-(R*,R*)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L3 ANSWER 15 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1989:457593 CAPLUS Full-text
DOCUMENT NUMBER: 111:57593
ORIGINAL REFERENCE NO.: 111:9775a,9778a
TITLE: Asymmetric aldol reaction of α-isocyanoacetamides with aldehydes catalyzed by a chiral ferrocenylphosphine-gold(I) complex
AUTHOR(S): Ito, Yoshihiko; Sawamura, Masaya; Kobayashi, Masaaki; Hayashi, Tamio
CORPORATE SOURCE: Dep. Synth. Chem., Kyoto Univ., Kyoto, 606, Japan
SOURCE: Tetrahedron Letters (1988), 29(48), 6321-4
CODEN: TELEAY; ISSN: 0040-4039
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 111:57593
GI

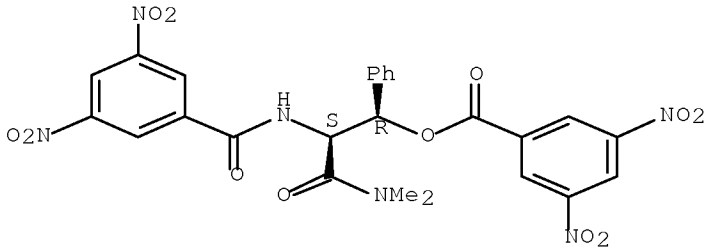


I

AB Aldol condensation of CNCH2CONR2 (R2N = Me2N, piperidino) with R1CHO (R1 = Me, Et, Me2CHCH2, Ph, 4-PhCH2OC6H4CH2) in the presence of 0.5-1 mol% of a chiral catalyst prepared from bis(cyclohexyl isocyanide) gold(I) tetrafluoroborate and (R)-N-methyl-N-[2-(1-piperidino)ethyl-1-[(S)-1',2-bis(diphenylphosphino)ferrocenyl]ethylamine proceeded with high enantio- and diastereoselectivity to give trans-5-alkyl-2-oxazoline-4-carboxamides I of up to 98.6% enantiomeric excess, which could be converted into optically active threo-β-hydroxyamino acids, e.g., L-threonine.

IT 121709-56-6P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 121709-56-6 CAPLUS
CN Benzenepropanamide, α-[(3,5-dinitrobenzoyl)amino]-β-[(3,5-dinitrobenzoyl)oxy]-N,N-dimethyl-, [R-(R*,S*)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

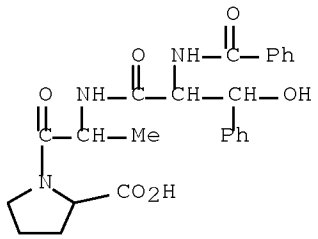


L3 ANSWER 16 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1989:417123 CAPLUS Full-text
DOCUMENT NUMBER: 111:17123

ORIGINAL REFERENCE NO.: 111:2883a,2886a
TITLE: Peptide inhibitors of angiotensin-converting enzyme with nonproteinogenic amino acids
AUTHOR(S): Reissmann, Siegmund; Schwuchow, Carola; Filatova, P.; Krit, N. A.; Siems, Wolf Eberhard; Heder, Gottfried; Schrader, Uwe; Schubert, Harald; Mueller, Bettina; et al.
CORPORATE SOURCE: Dep. Biol., Friedrich-Schiller-Univ., Jena, 6900, Ger. Dem. Rep.
SOURCE: Collection of Czechoslovak Chemical Communications (1988), 53(11A), 2591-8
CODEN: CCCCAK; ISSN: 0010-0765
DOCUMENT TYPE: Journal
LANGUAGE: English

AB To study the structural requirements of angiotensin-converting enzyme (ACE), 2 series of acylated tripeptides with the common structure Acyl-AA1-AA2-Pro and Acyl-AA1-Arg-Pro, were tested. The structure-activity relationship indicated that the inhibitory activities result from the structure and conformation of the whole mol. The use of nonproteinogenic amino acids in the positions AA1 and AA2 stabilized to some degree the peptides against enzymic degradation Some of the acylated tripeptides were able to reduce the angiotensin I-induced blood pressure enhancement in normotensive rats. The peptides were orally active. No good correlation existed between the inhibitory activity of the isolated enzyme and the in vivo activity. The structural requirements for the inhibition of the isolated ACE and the potentiation of bradykinin action on the guinea pig ileum were different.

IT 115132-05-3
RL: BIOL (Biological study)
(angiotensin-converting enzyme inhibition by)
RN 115132-05-3 CAPLUS
CN L-Proline, erythro-N-benzoyl-β-hydroxyphenylalanyl-L-alanyl- (9CI) (CA INDEX NAME)

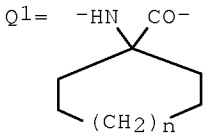


L3 ANSWER 17 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1988:438255 CAPLUS Full-text
DOCUMENT NUMBER: 109:38255
ORIGINAL REFERENCE NO.: 109:6495a,6498a
TITLE: Preparation and testing of proline containing tripeptides as argiotensin converting enzyme inhibitors
INVENTOR(S): Reissmann, Siegmund; Arold, Helmut; Schwuchow, Carola; Agricola, Inge; Schrader, Uwe; Siems, Wolf Eberhard; Filatova, M. P.; Krit, N. A.; Orekhovich, V. N.; Bardl, Bettina
PATENT ASSIGNEE(S): Friedrich-Schiller-Universitaet, Ger. Dem. Rep.

SOURCE: Ger. (East), 6 pp.
CODEN: GEXXA8
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DD 252191	A1	19871209	DD 1986-293667	19860815

PRIORITY APPLN. INFO.: DD 1986-293667 19860815
OTHER SOURCE(S): CASREACT 109:38255
GI

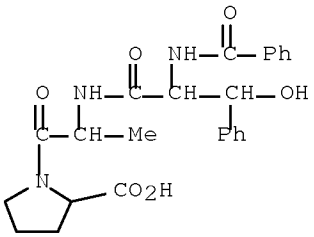


AB R1-X-Y-Pro-OH [I; R1 = acyl; X = R2NCH(CR3R4R5)CO, Q1; R2 = H, Me, Et; R3 = H, Me, CHMe2; R4 = H, OH, Me, Et, CHMe2; R5 = Ph, cyclohexyl, Et, CHMe2, CMe3; Y = (un)natural amino acid residue; n = 0-6] were prepared as angiotensin converting enzyme (ACE) inhibitors. BOC-DL-2,5-dimethylphenylalanine, N-methylmorpholine, and iso-Bu chloroformate were stirred in THF and H-Ala-Pro-OBz·HCl was added. The mixture was stirred at -30° to room temperature over .apprx.19 h and the product was N-deprotected with 2 N HCl/Et2O, acylated with 2,4,5-trichlorophenyl 1-damantanecarboxylate, and deprotected to give I (X = dimethylalanyl, Y = Ala, and R1 = 1-adamantanecarbonyl). I inhibited ACE with IC50's of 7-200 μM.

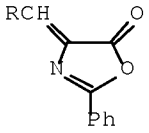
IT 115132-05-3P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation of, as antihypertensive)

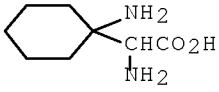
RN 115132-05-3 CAPLUS

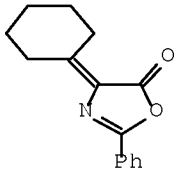
CN L-Proline, erythro-N-benzoyl-β-hydroxyphenylalanyl-L-alanyl- (9CI) (CA INDEX NAME)



ACCESSION NUMBER: 1979:474305 CAPLUS Full-text
DOCUMENT NUMBER: 91:74305
ORIGINAL REFERENCE NO.: 91:12005a,12008a
TITLE: A convenient preparative method for α,β-diamino acids
AUTHOR(S): Rakhshinda, M. Ali; Khan, Naseem H.
CORPORATE SOURCE: Dep. Chem., Aligarh Muslim Univ., Aligarh, 202001, India
SOURCE: Synthetic Communications (1979), 9(5), 351-61
CODEN: SYNCAV; ISSN: 0039-7911
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 91:74305
GI


I

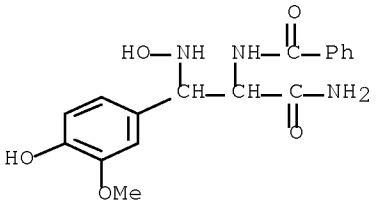

III


IV

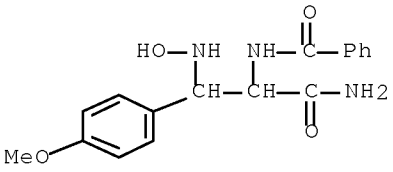
AB Azlactones I [R = Ph, 3,4-MeO(HO)C6H3, 3,4-(methylenedioxy)phenyl, 4-MeOC6H4, 3,4-(MeO)2C6H4, 4-HOC6H4, 4-Me2NC6H4, 3-indolyl] underwent ammonolysis to give BzNHC(:CHR)CONH2, addition reaction with HONH2 to give BzNHCH(CHRNHOH)CONH2, hydrogenolysis in the presence of Pd/C to give BzNHCH(CHRNH2)CONH2, and hydrolysis in refluxing HCl to give H2NCHRCHNH2CO2H (II). II (R = Pr, PhCH2CH2) were prepared analagously from I (R = MeCH:CH, PhCH:CH), and the aminocyclohexaneacetate III was prepared from the azlactone IV.

IT 70985-10-3P 70985-12-5P 70985-13-6P
70985-14-7P 70985-16-9P 70985-19-2P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and hydrogenolysis of)

RN 70985-10-3 CAPLUS
CN Benzenepropanamide, α-(benzoylamino)-4-hydroxy-β-(hydroxyamino)-3-methoxy- (CA INDEX NAME)

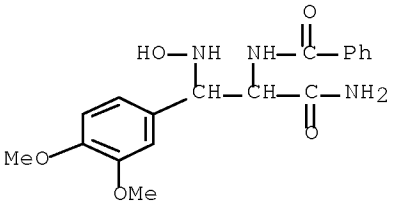


RN 70985-12-5 CAPLUS
CN Benzenepropanamide, α-(benzoylamino)-β-(hydroxyamino)-4-methoxy- (CA INDEX NAME)



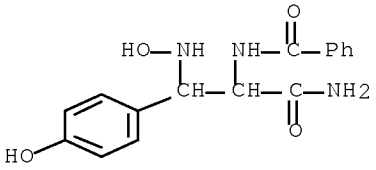
RN 70985-13-6 CAPLUS

CN Benzenepropanamide, α-(benzoylamino)-β-(hydroxyamino)-3,4-dimethoxy- (CA INDEX NAME)



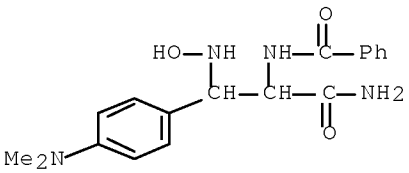
RN 70985-14-7 CAPLUS

CN Benzenepropanamide, α-(benzoylamino)-4-hydroxy-β-(hydroxyamino)- (CA INDEX NAME)



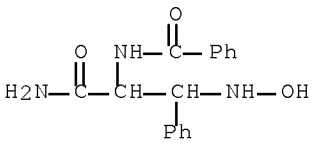
RN 70985-16-9 CAPLUS

CN Benzenepropanamide, α-(benzoylamino)-4-(dimethylamino)-β-(hydroxyamino)- (CA INDEX NAME)



RN 70985-19-2 CAPLUS

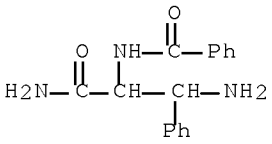
CN Benzenepropanamide, α-(benzoylamino)-β-(hydroxyamino)- (CA INDEX NAME)



IT 68624-04-4P 70985-21-6P 70985-23-8P
70985-24-9P 70985-25-0P 70985-27-2P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and hydrolysis of)

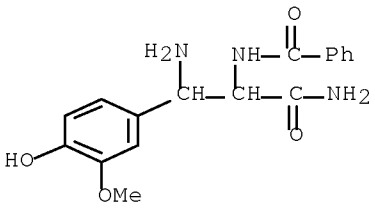
RN 68624-04-4 CAPLUS

CN Benzenepropanamide, β-amino-α-(benzoylamino)- (CA INDEX NAME)



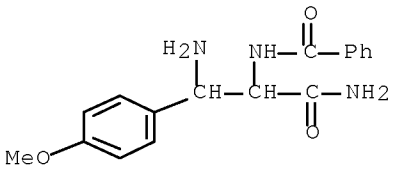
RN 70985-21-6 CAPLUS

CN Benzenepropanamide, β-amino-α-(benzoylamino)-4-hydroxy-3-methoxy- (CA INDEX NAME)



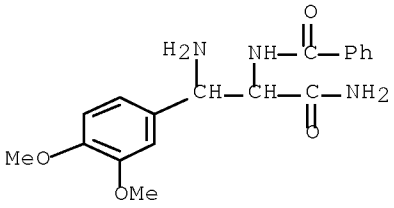
RN 70985-23-8 CAPLUS

CN Benzenepropanamide, β-amino-α-(benzoylamino)-4-methoxy- (CA INDEX NAME)



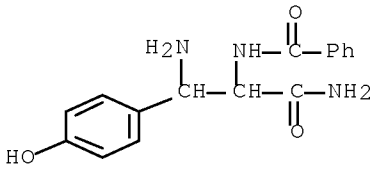
RN 70985-24-9 CAPLUS

CN Benzenepropanamide, β-amino-α-(benzoylamino)-3,4-dimethoxy- (CA INDEX NAME)



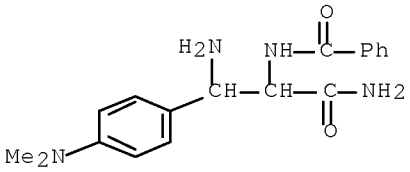
RN 70985-25-0 CAPLUS

CN Benzenepropanamide, β-amino-α-(benzoylamino)-4-hydroxy- (CA INDEX NAME)



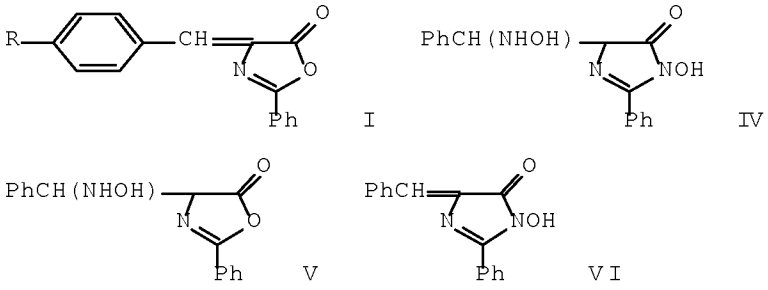
RN 70985-27-2 CAPLUS

CN Benzenepropanamide, β-amino-α-(benzoylamino)-4-(dimethylamino)- (CA INDEX NAME)



L3 ANSWER 19 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1979:23638 CAPLUS Full-text
DOCUMENT NUMBER: 90:23638
ORIGINAL REFERENCE NO.: 90:3931a,3934a
TITLE: Reaction of azalactone with hydroxylamine. Synthesis of β-aminophenylalanine
AUTHOR(S): Ali, Rakhshinda Mohamed; Khan, Naseem H.
CORPORATE SOURCE: Dep. Chem., Aligarh Muslim Univ., Aligarh, India
SOURCE: Synthetic Communications (1978), 8(7), 497-510
CODEN: SYNCAV; ISSN: 0039-7911
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



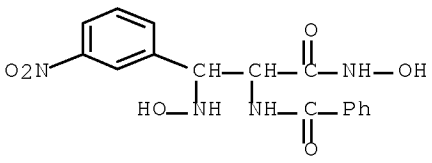
I IV V VI

AB One mole azlactone I (R = H) (II) was treated with 1 mol HONH2 in MeOH containing Na at room temperature for 24 h to give 51% PhCH(NHOH)CH(NHBz)CONHOH (III), whereas when 1 mol II was treated with 2 mol HONH2 in refluxing MeOH containing NaOMe for 1 h, 35% imidazolone IV, 28% oxazolone V, 15% imidazolone VI, and 20% PhCH:C(NHBz)CON(OH)COC(NHBz):CHPh were obtained. One mole I (R = MeO) (VII) was treated with 2 mol HONH2 in EtOH/NaOEt under reflux for 30 min to give 79% 4-MeOC6H4CH:C(NHBz)CONHOH, whereas 62% 4-MeOC6H4CH:C(NHBz)CON(OH)C(NHBz):CHC6H4OMe-4 was obtained when the above reaction was conducted with 2 mol VII and 1 mol HONH2. III was hydrogenated over Pd/C to give 95% PhCH(NH2)CH(NHBz)CONH2 which was refluxed in 36% HCl to give 78% PhCH(NH2)CH(NH2)CO2H.

IT 68623-98-3P 68624-01-1P 68624-04-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

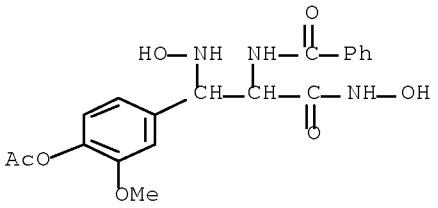
RN 68623-98-3 CAPLUS

CN Benzenepropanamide, α-(benzoylamino)-N-hydroxy-β-(hydroxyamino)-3-nitro- (CA INDEX NAME)



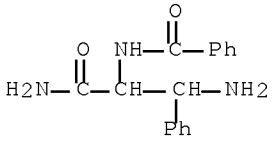
RN 68624-01-1 CAPLUS

CN Benzenepropanamide, 4-(acetyloxy)-α-(benzoylamino)-N-hydroxy-β-(hydroxyamino)-3-methoxy- (CA INDEX NAME)



RN 68624-04-4 CAPLUS

CN Benzenepropanamide, β-amino-α-(benzoylamino)- (CA INDEX NAME)



L3 ANSWER 20 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1976:447026 CAPLUS Full-text

DOCUMENT NUMBER: 85:47026

ORIGINAL REFERENCE NO.: 85:7659a,7662a

TITLE: Synthesis of non-protein bound amino acids

AUTHOR(S): Ali, Mohd; Khan, Naseem H.; Siddiqui, Amin A.

CORPORATE SOURCE: Dep. Chem., Aligarh Muslim Univ., Aligarh, India

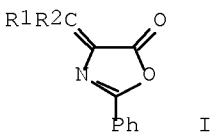
SOURCE: Synthetic Communications (1976), 6(3), 227-35
CODEN: SYNCAV; ISSN: 0039-7911

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 85:47026

GI



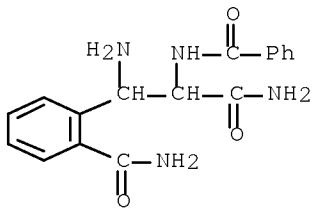
I

AB Catalytic hydrogenation of azlactones I (R1 = 1-naphthyl, o-MeOC6H4, p-HOC6H4, 2,4-(HO)2C6H3, 3,4-(MeO)(HO)C6H3, piperonyl, o-(H2NCO)C6H4, 3-pyridyl, o- and m-H2NC6H4, p-(Me2N)C6H4, Me2C(NH2)CH2, Me2CHCH2, CMe3; R2 = H, Me, NH2; R1R2C = cyclopentyl, cyclohexyl) in alc. NH3 gave 64-98% of the corresponding N-benzoylamino acid amides, which on hydrolysis with 10-36% HCl or HI in the presence of red P gave the free amino acid or on hydrolysis with 36% HCl gave the N-benzoylamino acid. Thus, hydrogenation of I (R1 = 1-naphthyl, R2 = H) gave 95% of the amide which was hydrolyzed with HCl and red P to give 75% β-1-naphthyl-DL-alanine.

IT 59759-58-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and hydrolysis of)

RN 59759-58-9 CAPLUS

CN Benzenepropanamide, β-amino-2-(aminocarbonyl)-α-(benzoylamino)- (CA INDEX NAME)



L3 ANSWER 21 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1968:3171 CAPLUS Full-text

DOCUMENT NUMBER: 68:3171

ORIGINAL REFERENCE NO.: 68:631a,634a

TITLE: Intramolecular Curtius reaction of some hydroxy amino acids

AUTHOR(S): Nicolaides, Ernest D.

CORPORATE SOURCE: Parke, Davis and Co., Ann Arbor, MI, USA

SOURCE: Journal of Organic Chemistry (1967), 32(4), 1251-3
CODEN: JOCEAH; ISSN: 0022-3263

DOCUMENT TYPE: Journal

LANGUAGE: English

GI For diagram(s), see printed CA Issue.

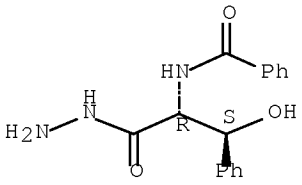
AB N-Acyl and N-carbobenzoxy amino acids are treated with N2H4 to give hydrazides and the hydrazides are treated with NaNO2 in HCl to give 4-amino-2-oxazolidinones (I). Similarly prepared is 4-acetamidotetrahydro-2H-1,3-oxazin-2-one. Benzyl 2-oxo-4-oxazolidinecarbamates are hydrogenated in the presence of Pd to give 4,4'-iminobis(2-oxazolidinone) and 4,4'-iminobis(5-methyl-2-oxazolidinone).

IT 7705-79-5P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 7705-79-5 CAPLUS

CN Serine, N-benzoyl-3-phenyl-, hydrazide, DL-threo- (8CI) (CA INDEX NAME)

Relative stereochemistry.



L3 ANSWER 22 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1956:82041 CAPLUS Full-text
DOCUMENT NUMBER: 50:82041
ORIGINAL REFERENCE NO.: 50:15509f-i,15510a-h
TITLE: Reaction of bisamides. VI. Synthesis of β-aryl-α,β-diaminopropionic acids
AUTHOR(S): Stefanovic, Gjorgje; Stefanovic, Milutin
CORPORATE SOURCE: Univ. Belgrade, Yugoslavia
SOURCE: Journal of Organic Chemistry (1956), 21, 161-8
CODEN: JOCEAH; ISSN: 0022-3263
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
GI For diagram(s), see printed CA Issue.

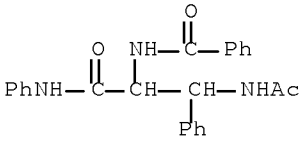
AB cf. C.A. 48, 13655f. β-Aryl-α,β-diaminopropionic acids are prepared by condensation of aromatic N, N-bisamides with BzNHCH2CO2H (I) in the presence of Ac2O and AcOH. Benzylidenebisacetamide (II) (41.2 g.) is added to 35.8 g. I in 60 g. AcOH and 20.4 g. Ac2O at 110° with stirring, the mixture heated 75 min., the cold solution poured onto ice, and the precipitate washed with H2O, giving 60 g. of a solid from which, on crystallization from 500 cc. 96% EtOH, 10% 2-phenyl-4-benzylidene-2-oxazolin-5-one (III) is obtained. III is also formed in 62% yield when 7.2 g. I in 12.3 g. Ac2O is heated at 120°, 8.4 g. II and 2.9 g. NaOAc are added, and the mixture is heated 3 hrs. Concentrating the mother liquor of III in vacuo to 250 cc. and keeping it 48 hrs. at 0° give 61% azlactone (IV), m. 207°, of α-benzoylamino-β-acetylamino-β-phenylpropionic acid (V). Concentrating the mother liquor of IV again in vacuo, refluxing the residue 2 hrs. with 250 cc. H2O, and acidifying the solution with dilute HCl give 8% V, m. 238° (Me ester, prepared with CH2N2, 90%, m. 245-6°, when heated above its m.p. gives III). A part of V, on treatment with CH2N2, seems to be converted into an isomeric azlactone (VI) of V. Treating IV in 50 cc. 96% EtOH with 50 cc. 10% aqueous NaOH 3 days and acidifying the solution with 10% HCl give 76% of an isomeric V (VII), m. 201°, which, with CH2N2, gives a Me ester (VIII), m. 110-15°, solidifying and m. again at 234-6°. Heating VIII above its m.p. gives III. Saponification of VIII gives VII again. Heating 5 g. VII in 50 cc. Ac2O on a water bath and evaporating the solution in vacuo give 85% IV; similar treatment of V gives 74% VI, m. 191°. IV and VI differ greatly in their hydrolysis rate which is 50 times faster for VI than for IV. Heating 5 g. VII 1 hr. with 50 cc. Ac2O on a water bath gives III and IV, whereas similar treatment of V gives 47% VI and from the mother liquor, 14% of a stereoisomeric azlactone (IX), m. 143-5°, which (0.5 g.) heated 15 min. with 10 cc. 96% EtOH and 5-6 drops C5H5N gives III, m. 165-6°. Heating 3 g. IV with 300 cc. PhNH2 in a N atmospheric 2 hrs. at 190-200° gives 90% anilide (X) of V, m. 298-300°. Heating similarly 3 g. VI with PhNH2 gives 82% X. Refluxing 10 g. IV 2 hrs. with 60 cc. concentrated HCl and extracting the solution with Et2O give 45% BzOH and some BzH. Evaporation of the aqueous acid solution in vacuo and recrystn. of the residue give 58% α,β-diamino-β-phenylpropionic acid-HCl (XI), m. 231°. Similar hydrolysis of 5 g. VI gives 25% BzOH and 54% XI. Hydrolysis of 5 g. VII or V with concentrated HCl gives 63 or 60% XI, resp. Treating 5 g. XI in 80 cc.

H2O overnight with Ag2O, precipitating the Ag in the filtered solution with H2S, and evaporating the filtrate give 79% α,β-diamino-β-phenylpropionic acid (XII), m. 215-16°. Heating 7.2 g. I in 12 g. AcOH and 4.1 g. Ac2O with 8.8 g. 4-methylbenzylidenebisacetamide 80 min., adding H2O, and recrystg. the precipitate from 70 cc. 96% EtOH give 9.5% azlactone, m. 141-2°, of α-benzamido-β-acetamido-β-(4-methylphenyl)propionic acid (XIII). Evaporating the mother liquor in vacuo, adding H2O, and extracting the dried precipitate with 50 cc. CHCl3 leave 21% XIII, m. 229°. Evaporation of the CHCl3 extract gives 7 g. residue (XIV). Refluxing 2 g. XIV in 100 cc. H2O gives 1.7 g. of an isomer (XV), m. 197°, of XIII, which is also obtained in 34% yield when 5 g. XIV is treated 24 hrs. in 25 cc. 96% EtOH with 40 cc. 10% NaOH at 20° and the solution is acidified. Heating 2 g. XIII 15 min. with 20 cc. Ac2O on a water bath, evaporating the solution in vacuo, and recrystg. the residue give 84% 2-phenyl-4-(4-methylbenzylidene)-2-oxazolin-5-one, m. 140-1°, which is also obtained in 78% yield in the same way from XV. Condensation of 7.2 g. I in 12 g. AcOH and 4.1 g. Ac2O at 110° with 10 g. 3,4-methylenedioxybenzylidene-bisacetamide 80 min. on a water bath gives 5% 2-phenyl-4-(3,4-methylenedioxybenzylidene)-2-oxazolin-5-one (XVI), m. 197°. Concentration of the mother liquor to 50 cc. causes the separation of 1 g. α-bensamido-β-acetylamino-β-(3,4-methylenedioxyphenyl)- propionic acid (XVII), m. 232°. Evaporation of the final mother liquor and extraction of the residue with CHCl3 leave 22% of an isomer (XVIII), m. 220°, of XVII. Evaporation of the CHCl3 extract and saponification of the residue with aqueous NaOH give 3.2 g. (or a total of 28%) XVII. Heating 2 g. XVII with 20 cc. Ac2O and recrystg. the residue of the evaporated (in vacuo) solution give 76% XVI which is also obtained in the same way from XVIII. Heating 7.2 g. I in 12 g. AcOH and 4.1 g. Ac2O with 9.4 g. 2-methoxybenzylidenebisacetamide 75 min. at 110° gives 46% α-benzamido-β-acetamido-β-(2-methoxyphenyl)propionic acid (XIX), m. 241°, 6% 2-phenyl-4-(2-methoxybenzylidene)-2-oxazolin-5- one (XX), m. 154-6°, 14% of the saturated azlactone o-MeOC6H4CH(NHAc)CH.N:CPh.O.CO (XXI), m. 185°, and 11% of an isomer (XXII), m. 145°, of XIX. Heating 1 g. XIX with 10 cc. Ac2O 1 hr. gives 64% XX which is also obtained in 64% yield in the same way from XXII, in addition to 21% XXI. Heating 1 g. XXII 10 min. with 10 g. Ac2O gives 63% XXI which, on hydrolysis, gives 76% XXII. Heating 7.2 g. I in 12 g. AcOH and 4.1 g. Ac2O with 9.4 g. 4-methoxybenzylidene-bisacetamide 70 min. at 115° gives 11% 2-phenyl-4-(4-methoxybenzylidene)-2- oxazolin-5-one (XXIII),m.157-8°, 44 % α-benzamido-β-acetamido-β-(4-methoxyphenyl)propionic acid (XXIV), m. 232°, and 15% of an isomeric acid (XXV), m. 218°. Heating 2 g. XXIV or XXV with 20 cc. Ac2O 15 min. gives 83 or 77% XXIII, resp. Heating 7.2 g. I in 30 cc. AcOH and 4.1 g. Ac2O with 10 g. 3-nitrobenzylidene-bisacetamide 2 hrs. at 125-30° gives 48% α-benzamido-β-(3-nitrophenyl)acrylic acid (XXVI), m. 218-20° and from the NaHCO3-insol. part 17% azlactone, m. 174°, of XXVI.

IT 858214-83-2P, Hydrocinnamanilide, β-acetamido-α-benzamido-
RL: PREP (Preparation)
(preparation of)

RN 858214-83-2 CAPLUS

CN Benzenepropanamide, β-(acetylamino)-α-(benzoylamino)-N-phenyl- (CA INDEX NAME)



L3 ANSWER 23 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1949:46445 CAPLUS Full-text
DOCUMENT NUMBER: 43:46445
ORIGINAL REFERENCE NO.: 43:8382g-i,8383a-f
TITLE: Analogs of aspergillic acid. III. Synthesis of cyclic hydroxamic acids with a five-membered ring
AUTHOR(S): Shaw, Elliott; McDowell, Jean
SOURCE: Journal of the American Chemical Society (1949), 71, 1691-4
CODEN: JACSAT; ISSN: 0002-7863
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable

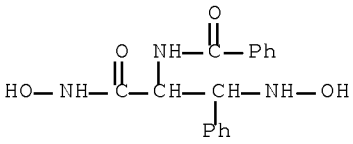
AB cf. C.A. 43, 2997g. Addition of 0.12 mol. 2-phenyl-4-benzylidene-5(4 H)-oxazolone (I) to a solution (II) of H2NOH from 0.41 mol. H2NOH.HCl and 0.41 mol. NaOMe in MeOH gave heat evolution and in 24 hrs. a gradual precipitation of 9 g. BzNHCH(CHPhNHOH)CONHOH (III), m. 129-30°, reducing cold Fehling solution Concentration in vacuo of the filtrate to a sirup, seeding, and gradual addition of H2O gave 16 g. BzNHC(:CHPh)CONHOH (IV), m. 130° (decomposition) varying with the heating rate, gives a red color with FeCl3. The course of the reaction depended on the dryness of the H2NOH used. Thus, 0.1 mol. I added to 0.1 mol. H2NOH in 125 cc. of a solution (V) from H2NOH.HCl and KOH in MeOH dissolved slowly; after 4 days golden needles of 1-hydroxy-2-phenyl-4-benzylidene-5(4H)-imidazolone (VI) began to precipitate, so the solution was decanted from undissolved I and gave in several days 15% VI, m. 206-7° (from EtOH), forming a wine color with FeCl3 and a slightly soluble red Na salt. IV (0.1 g.) suspended in 20 cc. boiling 3 N HCl 10 min. turned yellow, and cooling and filtering gave 53% crude VI. IV (5.0 g.) in 50 cc. boiling N NaOH 6 min. gave a red solution; cooled and acidified with 10% HCl, and the precipitated gum decolorized in EtOH and concentrated it gave 0.38 g. product (VII), m. 214°, giving an amber color with FeCl3, alkali-soluble, and acid-insol. VII contained C 69.50, H 4.81, and N 9.33%. Concentration of the EtOH filtrate gave 0.4 g. VI, giving a low mixed m.p. with VII. VI in hot EtOH and Na-Hg gave 25% 2-phenyl-4-benzyl-5(4H)-imidazolone, m. 145-6°. 2-Phenyl-4-(p-ethoxybenzylidene)-5(4H)-imidazolone (0.1 mol.) was treated with 0.2 mol. II 16 hrs., filtered from an acid-soluble precipitate (probably a β-hydroxylamino acid analogous to III), the filtrate concentrated in vacuo to a sirup, and the latter crystallized to 10 g. crude α-benzamido-p-ethoxycinnamohydroxamic acid. This was cyclized directly in 200 cc. boiling 3 N HCl in 10 min., the mixture cooled, and the yellow precipitate crystallized from EtOH as 4 g. 1-hydroxy-2-phenyl-4-(p-ethoxybenzylidene)-5(4H)-imidazolone, m. 231°. I (5 g.) and 2.5 ml. H2NOCH2Ph in 300 cc. Et2O and 30 cc. CHCl3 were refluxed 1 hr. and cooled to precipitate 78% BzNHC(:CHPh)CONHOCH2Ph (VIII), m. 164-5°, precipitated from alkaline solution by CO2, a property of o-alkylated hydroxamic acids. Thermal cyclization of 5 g. VIII at 175° and 2 mm. 15 min. and trituration of the still-pot residue gave 1.4 g. crude I, crystallized from C6H6. At 190° and 12 mm. less azlactone formation was observed and the mother liquors gave 10% 1-benzyloxy derivative (IX) of V, m. 122°, a yellow alkali-insol. solid. Acid cyclization was performed with remarkable ease; 1 g. VIII in 30 cc. boiling 3 N HCl and 5 cc. dioxane 10 min., cooling and crystallization of the solidified red oil from EtOH gave IX. IX was also prepared in 60% yield by addition of 0.44 g. 1-HO derivative of I to 0.038 g. Na in 125 cc. MeOH, refluxing of the red suspension of Na salt with 0.25 g. PhCH2Cl 2 hrs., decantation of the cooled solution from NaCl, and concentration Addition of 2 cc. H2NOCH2Ph to 2.05 g. 4,4-dimethyl analog (X) of I in 20 cc. anhydrous Et2O gave in 2 hrs. 3 g. BzNHCMe2CONHOCH2Ph (XI), m. 203-4°, precipitated from dilute NaOH solution by CO2. Reduction of 6 g. in 150 cc. EtOH and 1 g. Pd-C at 50 lb. H 30 min.,

heating of the gel, filtration of the solution, and cooling precipitated 75% BzNHCMe2CONHOH (XII), m. 163° (decomposition). X (23 g.) added to 240 cc. N V solution gave a slight temperature rise and precipitated XII. XII treated 15 min. with boiling N NaOH and acidified gave CO2 and precipitated a compound without the hydroxamic group. XI was unchanged by boiling 2.5 N NaOH in 2 hrs. Both XI and XII with hot aqueous HCl rapidly gave BzNHCMe2CO2H, m. 196-7°.

IT 858217-76-2P, Hydrocinnamohydroxamic acid, α-benzamido-β-hydroxyamino-
RL: PREP (Preparation)
(preparation of)

RN 858217-76-2 CAPLUS

CN Benzenepropanamide, α-(benzoylamino)-N-hydroxy-β-(hydroxyamino)- (CA INDEX NAME)



L3 ANSWER 24 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1949:25050 CAPLUS Full-text
DOCUMENT NUMBER: 43:25050
ORIGINAL REFERENCE NO.: 43:4668i,4669a-f
TITLE: Action of hydrazine hydrate on oxazolones
AUTHOR(S): Stodola, Frank H.
SOURCE: Journal of Organic Chemistry (1948), 13, 757-62
CODEN: JOCEAH; ISSN: 0022-3263
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
GI For diagram(s), see printed CA Issue.

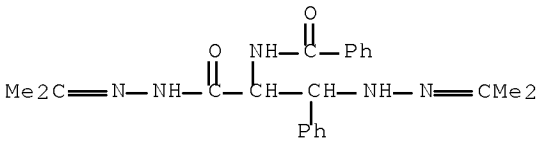
AB The work of Vanghelovici and Stephanescu (C.A. 38, 5501.3) has been repeated and correct structures assigned to their products. Thus, 2 g. PhC:N.C(:CHPh).CO.O (I) was triturated with 5 cc. H2O, 15 cc. MeOH, and 4 cc. 85% (H2N)2.H2O (II) until a clear solution resulted, 25 ml. H2O added after 1 hr., and the whole kept at 0° overnight to give 2.23 g. of fine white crystals, m. 140-5° (gas evolved). Recrystn. from MeOH-C2H4Cl2 gave 1.41 g., m. 151-3° (gas evolved), shown to be PhCH:C(NHBz)CONHNH2.H2O (III) on the basis of ultraviolet absorption spectra (peak at 2800 A.). Anhydrous III, obtained by dehydration over P2O5, was very hygroscopic. I (5 g.) and 5 cc. II refluxed 30 min. gave 3.83 g. of solid, m. 225-7° (from EtOH), shown to be PhCH.CH(NHBz).CO.NH.NH (IV). From 0.5 g. PhCH:C(NHBz)CO2Me (V), 3 cc. MeOH, and 0.5 cc. II after 2 hrs. at room temperature was obtained 0.445 g. PhCH(NHNH2)CH(NHBz)CONHNH2 (VI), m. 129-31° (gas evolved), which resolidified to give VII, m. 210-15°. VII was also prepared by heating VI at 135° and 1 mm. until gas evolution ceased. VII and IV were shown to be identical by mixed m.p. and x-ray diffraction patterns. The characteristic absorption peak of α,β-unsatd. acids at 2800 A. was absent in IV. VI was unstable at room temperature A stable derivative was prepared by keeping 0.1 g. VI in 8 cc. Me2CO several days to give PhCH(NHN:CMe2)CH(NHBz)CO2NHN:CMe2, m. 194-6° (from MeOH). VI (0.1 g.) and 1 cc. II after 3 hrs. at 100° gave 0.015 g. PhCH2CH (NHBz)CO2NHNH2, m. 189-90° (from MeOH-EtOH), shown to be identical by mixed m.p. and x-ray diffraction patterns with the product obtained by keeping 0.1

g. V and 0.2 cc. II in EtOH 7 days at room temperature IV (2 g.) in 100 cc. each of concentrated HCl and H2O was cooled to 5° and stirred while 0.49 g. NaNO2 in 5 cc. H2O was gradually added below the surface; after 10 min., the creamy precipitate was filtered, immediately treated with 10 cc. cold H2O containing 0.6 g. NaHCO3, filtered, and the filtrate acidified with concentrated HCl to give an amorphous white precipitate, PhCH.CH(NHBz).CO.NH.NNO (VIII), which, when dried over P2O5 at 0°, m. 107-10°, (gas evolved). VIII gave a deep red color with FeCl3 in alc. and a deep blue color with Ph2NH in concentrated H2SO4. VIII was unstable at room temperature but was stable for some months at 0°. For analysis, it was converted to the Ba salt, which formed a dihydrate.

IT 858209-26-4P, Hydrazine, 1-(α-benzamido-β-isopropylidenehydrazinohydrocinnamoyl)-2-isopropylidene-
RL: PREP (Preparation)
(preparation of)

RN 858209-26-4 CAPLUS

CN INDEX NAME NOT YET ASSIGNED



L3 ANSWER 25 OF 25 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1912:12887 CAPLUS Full-text

DOCUMENT NUMBER: 6:12887

ORIGINAL REFERENCE NO.: 6:1908g-i,1909a-i,1910a-i,1911a-i,1912a

TITLE: Unsaturated Compounds. IX. Addition of Hydroxylamine to Unsaturated Acids and Esters of the Cinnamic Acid Series and Analogous Compounds

AUTHOR(S): Posner, Theodor

CORPORATE SOURCE: Univ. Greifswald

SOURCE: Justus Liebigs Annalen der Chemie (1912), 389, 1-120
CODEN: JLACBF; ISSN: 0075-4617

DOCUMENT TYPE: Journal

LANGUAGE: Unavailable

OTHER SOURCE(S): CASREACT 6:12887

GI For diagram(s), see printed CA Issue.

AB The power of the most varied derivs. of PhCH :-CHCO2H (derivs. with substituents in the C6H0 nucleus, the α- and β-positions in the side chain or the CO2H) to add NH3OH was determined in the hope of finding some general relation between the constitution of the acid and its additive power. No such generalization can be drawn from the results, however, which may be summarized as follows: α,β-Unsatd. acids, their esters, anhydrides, amides, hydroxamic acids, as well as ω-nitrostyrole, add NH2OH and, so far as the end product is concerned, at the C: C group. The nitrile and aldehyde of PhCH: CHCO2H add it at the C: N or C: O group. Unsatd. hydrocarbons, β,γ -acids, alcs. and ω-halogenstyroles do.not add it (cf. also C. A., 3, 2694; 5, 292). Discussing Vorlander's views on the reactivity of the C: C and C: O groups in the system C: C.C: O, P. observes that the only well established fact is that addenda which consist of a strongly positive component (H, alkaline metal) and of 1 of but slightly pronounced polarity (NH2, NHOH, CN, etc.,) add to double bonds or conjugated systems only when the end of 1 of these systems is O or .N. C: O

and C: N groups can add such, substances either alone or in, conjugation with C : C groups, while C: C groups alone or in conjugation with other C: C groups cannot; it is only when they are in conjugation with other C: O, C: N and N: O groups that they possess additive power. Hence, in all these addition reactions, the end O or N is the 1st point of attack. As to the position which the entering groups will take, Hinrichsen's hypothesis (C. A., 4, 2104) affords the best answer. All the substituted cinnamic acids (with the exception of the o-and p-amino acids) give, with different velocities, to be sure,β-amino acids when treated. with alc. NH2OH, a compound RCH(NHOH)CH2CO2H being first formed (this was not isolated in all cases) which, on long b. with the NH2OH solution, is reduced to the amino acid. At the same time a side reaction takes place apparently in every case, giving a ketoxime: RCH(NHOH)CH2CO2H → RC(:NOH)CH2CO2H → RCMe: NOH + CO2 + H2O. The ketoxime sometimes amts. to 50% of the cinnamic acid used. The oxidation seems to be affected by atmospheric O, for it takes place on b. in pure alc. solution The esters of the cinnamic acids behave in the same way, and with the Me esters the formation of amino acids is much more rapid than with the free acids; often the corresponding γ-phenylisoxazolones are formed. The first products formed in the cold are often compds. of the type RCH(NHOH)CH2C-(:NOR)OH, in other cases of the type RCH(NHOH)CH2C(NHOH)3OH. Approx. 1 N solns. of NH2OH in MeOH or EtOH were used (2.5-3.0 mols. for the free acids, 3.5-4.0 for the esters), which were b. 3/4, 10 and 240 hrs. with the acids, and allowed to stand 8 days with the esters in an ice chest or b. 10 or 240 hrs., before the reaction product was studied, For the results with the non-substituted PhCH : CHCO2H and its esters, cf. Ber., 36-40 (1903-7). o-Nitro-β-hydroxylaminohydrocinnamhydroxamic acid, O2NC6H4CH(NHOH)CH2C(: NOH)OH, from O2NC6H4CH : CHCO2Et at 0°, m. 135° (decompose), soluble in dilute acids, alks. and Na2CO2 b. 1/2 hr. with H2O or several hrs. with alc., it gives o-nitro-β-aminohydrocinnamic acid, m. 222°, which can also be obtained by b. O2NC6H4CH : CHCO2H 240 hrs. or the Et ester 10 hrs. with alc. NH2OH. The m-nitro acid after 3/4 hr. gives hydroxylamine m-nitrocinnamate, light yellow crystals, m. 151° (decompose); after 10 hrs., m-nitro-β-aminohydrocinnamic acid, yellow crystals, m, 230° (decompose), also obtained after 20 min. b. with H2O of the hydroxylaminohydroxamic acid, yellow crystalline powder, m. 163-4° to a red oil (decompose). The p-nitro acid after 250 hrs. gives p-nitroacetophenoneoxime (4.3 g. from 15 g. acid), light yellow powder, m. 172-3°, becomes electrified on rubbing, and p-nitro-β-aminohydrocinnamic acid, light yellow powder, turns brown about 215°, m. 226° (decompose), also obtained after 8 hrs. b. of the Et ester. Hydroxylaminohydroxamic acid, m. 140° (decamp.). The o-amino acid and its Et ester yield only carbostyryl which does not further react with NH2OH (cf. the opposite behavior of coumarin, C. A., 3, 2566). P. believes that the o-NH2 group prevents addition at the ends of the conjugated system, the hydroxamic acid being formed and then losing NH2OH to give carbostyryl. The m-amino acid and its Et ester after 10 hrs. b. give. m,β-diaminohydrocinnamic acid, yellowish powder, m. 228° (decompose). Hydroxylaminohydroxamic acid, yellowish, crystalline powder, m.100-1° (gas evolution). The p-amino acid gave black, tarry products. The o-acetylamino acid gives carbostyryl. The o-hydroxy acid and its ester, after 10, hrs. b., give the β-amino acid, but the ester does not react in the cold. The m-hydroxy acid after 3/4 hr. gave what was apparently hydroxylamine m-hydroxy-β-hydroxylaminohydrocinnamate, crystalline precipitate, m. 129-30°, very easily soluble in cold H2O; after 10 hrs., m-hydroxy- β-aminohydrocinnamic acid, crystalline powder, m. 235-6° (decompose), also obtained by treating the Me ester with NH2OH and b. at once for 24 hrs.; if the Me ester is allowed to stand 14 days in the cold with the NH3OH and then b. 10 hrs., the product is β-hydroxyliminobis-m-hydroxyhydrocinnamhydroxamic acid, [HON: C(OH)CH2CH(C6H4OH)]2NOH, crystalline powder, m. 187-8° (decompose). The p-hydroxy acid after 8/4 hr. gives p-hydroxy-β-hydroxylaminohydrocinnamic acid,

m. 166° a red liquid(gas evolution); after 10 hrs., the amino acid, prismatic needles, m. 198°. (decompose), also obtained from the Me ester; the latter does not react with NH_2OH in the cold. The o-acetoxy acid after 3/4 hr. gives a substance which is very soluble and is probably a salt of o-acetoxy-β-hydroxylaminohydrocinnamic acid, precipitated as a thick oil by HCl and redissolving in an excess of HCl; after 5 hrs., the amino acid is obtained. The m-acetoxy acid behaves similarly. The cis-o-methoxy acid after 3/4 hr. b. (in the dark) gave the trans-acid; after 10 hrs., the cis- and trans-acids and their Me esters yielded o-methoxy-β-aminohydrocinnamic acid, crystalline powder, m. 209-10° (decompose); contrary to all the other amino acids obtained, it is easily soluble in H_2O. Benzoyl derivative, felted needles, m. 201°, only slightly soluble in H_2O and dilute acids but easily in alks. and Na_2CO_3. The m-methoxy acid and its Me ester after 10 hrs. give m-methoxy-β-aminohydrocinnamic acid, glittering crystals, m. 216° (decamp.). The p-methoxy acid b. a short time with alc. NH_2OH gives a salt $(C_{10}H_{10}O_3)_6NH_2OH$, does not m. up to 300°; after 10 hrs. b., the acid or Me ester give p-methoxy-β-aminohydrocinnamic acid, hard, spherical, transparent crystals, m. 243° (decompose). In the cold the Me ester forms p-methoxy-β-hydroxylaminohydrocinnamhydroxamoxime hydrate, $MeOC_6H_4CH(NHOH)CH_2C(NHOH)_2OH$, decompose 125-9°. Caffeic acid after 15 hrs. yields m,p-dihydroxy-β-aminohydrocinnamic acid, light yellow, granular powder, m. 196° (decompose). m-Methoxy-p-hydroxy-β-aminohydrocinnamic acid, from ferulaic acid, dark brown, amorphous powder, softens 168°, m. 182° (decompose); heated in H_2O with KCNO, it gives the ureino derivative, dark brown, amorphous powder, does not m. below 280°. Piperonylacrylic acid (20 g.) after 15 hrs. yields 9 g. of m,p-methylenedioxy-β-aminohydrocinnamic acid, crystalline powder, m. 233° (decompose), and 2.5 g. of m,p-methylenedioxyacetophenoneoxime, long needles, m. 156-7°. After 22 hrs. b., 30 g. of the acid gave 8 g. of the amino acid and 7.6 of the oxime. m,p-Methylenedioxy-β-ureinohydrocinnamic acid, crystalline powder, m. 178-9°. The α-methyl acid after 100 hrs. yields α-methyl-β-phenyl-β-aminopropionic acid, m. 243° (decompose). If the b. is continued 240 hrs., the yield is much diminished. The product obtained on short b. is not the hydroxylamino acid as previously supposed (Ber., 36, 4314), but hydroxylamine α-methylcinnamate. The Me ester does not react in the cold; the reaction previously observed was due to the admixture of a little $PhCH : CHCO_2Et$. On b., it gives the same amino acid as the free acid. The Et ester behaves in the same way. Amino acid hydrochloride, $C_{10}H_{13}O_2N.HCl$, from the amino acid and either concentrate or dilute HCl, m. 227° (decompose). Benzoyl derivative, m. 205°. Ureino derivative, m. 153° (decompose); when heated at 160° until foaming ceases, it yields 4-phenyl-5-methyldihydrouracil, crystalline powder from absolute alc., m. 185°. The amino acid, heated 3 hrs. on the H_2O bath with HCl and KCNS, evaporated to dryness and then heated 2 hrs. at 140°, gives 4-phenyl-5-methyldihydrothiouracil, exceedingly bitter crystals, m. 186°. The β-methyl acid after 240 hrs., the Me ester after 10 hrs. and the Et ester after 240 hrs. give β-methyl-β-phenyl-β-aminopropionicacid, m. 225° (decompose); with KCNO and subsequent addition of HCl and concentrate on the H_2O bath, it yields 4,4-methylphenyldihydrouracil, m. 240-1°. The α-ethyl acid after 3/4 hr. gives only a NH_2OH salt; after 10 hrs., α-ethyl-β-phenyl-β-aminopropionic acid, m. 227°(decompose); longer b. (240 hrs.) reduces the yield. It is also obtained from the Me ester after 190 hrs. The latter in the cold gives a small amount of α-ethyl-β-phenyl-β- hydroxylaminopropionhydroxamoxime hydrate, m. 121° (decompose). In 1 experiment, the Me ester did not react after 8 hrs. b.; it was then b. 27 hrs. more, when a product was obtained which was precipitated from alc. by Et_2O in powdery form. It could not be obtained pure. It m. 190-215°, is soluble in Cold H_2O, reduces cold Fehling solution and contains about 14.7% N. In another experiment the Me ester was b. 31 hrs.

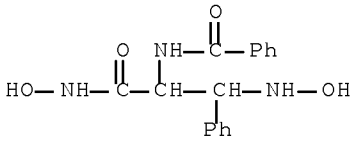
(9 hrs. immediately after mixing with the NH2OH, 11 hrs. on each of the 2 following days); this time the product was methyl hydroxyliminobis-(α-ethyl-β-phenylpropionate)hydroxamic acid, MeO2CCHEtCHPhN(OH)CHPhCHEtC(: NOH)OH.2H2O, silvery leaflets, m. 228° (decompose). When the experiment was repeated under the same conditions, except that the reaction mixture was allowed to stand overnight at room temperature before b., the product was the amino acid above. The Et ester does not react in the cold. The β-ethyl acid after 240 hrs. and its Me ester after 10 hrs. give β-ethyl-β-phenyl-β-aminopropionic acid, precipitated from alc. by Et2O as a white powder, m. 217°, quite soluble in cold alc. or H2O, separating from the latter with 1.25 or 1.5 mols. H2O in long needles, m. 92-4°, foam 110°, solidify 120° and m. again 217°. The amino acid in H2O forms with Cu(OAc)2 a copper salt, 2Cu(C11H14O2N)2.C11H15O2N.H2O. Heated on the H2O bath with KCNO, the amino acid gives 4,4-ethylphenyldihydrouracil, crystalline powder, m. 220-1°. The α-phenyl acid after 2 hrs. gives stilbene; after 240 hrs., α,β-diphenyl-β-aminopropionic acid, felted, asbestos-like needles, m. 225° (decompose), also obtained from the Me ester after 10 hrs. Hydrochloride, m. 228°. Ureino derivative, m. 141°, losing H2O and forming 4,5-diphenyldihydrouracil, crystalline powder, m. 268°. In the attempt to replace the NH2 of the amino acid by OH by means of HNO2, there was obtained stilbene and a compound, C15H14O3, crystalline powder, m. 173°, soluble in alc., Et2O, Na2CO3 and alks., insol. in H2O and dilute acids, does not react with Br or KMnO4. When mixed with α-methylcinnamic acid (m. 172°), it m. 150°. It is probably a stereomer of the latter acid and is designated as α-phenylisocinnamic acid. The β-phenyl acid after 240 hrs. gives a little β,β-diphenyl-β-aminopropionic acid, crystalline powder, m. 208° (decompose). The Me ester after 10 hrs. gives γ-diphenylisoxazolidone, Ph2C.CH2.CO.O.NH, needles, m. 199-9.5°, soluble in NaOH, insol. in Na2CO3 and dilute acids. It is also obtained, together with the amino acid, when the b. of the Me ester is continued 240 hrs. The α-benzoylamino acid after 6 hrs. gave β-hydroxylamino-α-benzoylaminohydrocinnamic acid, prismatic needles, m. 195° (decompose); longer b. (30 hrs.) did not result in the formation of the amino acid. The Et ester in the cold forms α-benzoylamino-β-hydroxylaminohydrocinnamhydroxamic acid, needles, m. 128° (decompose), which could not be obtained pure as it decompose on crystallization, giving, when b. with H2O, α-benzoylamino-β-aminohydrocinnamic acid, m. 193° (decompose), which, when heated with KCNO, yields the ureino derivative, m. 205°. Furfuracrylic acid after 240 hrs. gave acetylfuraneoxime (Bouveault, Ber., 34,1072) and possibly a little of the amino acid. The Me ester at room temperature and the Et ester after 6 hrs. b. gave β-hydroxylamino-β-furfurylpropionhydroxamoxime hydrate, m. 109°, which, when b. with H2O, yields β-amino-β-furfurylpropionic acid, crystalline powder, m. 205° (decompose). Benzoyl derivative, m. 180°. Ureino derivative, faintly yellow, m. 175°, forming 4-α-furfuryldihydrouracil, crystalline powder, m. 210°. The compound designated in the literature as β-aminohydroatropaic acid (Beilstein, II, 1372) is the amide of tropaic acid, while the supposed α-amino-α-phenylpropionic acid (Ber., 36, 4315). obtained from atropaic acid and NH2OH, is really the β-amino-α-phenylpropionic or true β-aminohydroatropaic acid. It m. 234° (decompose). Phenylisocrotonic acid and NH2OH after short b. (5 min.) give the hydroxylamine salt, m. 107-8°, not γ-phenylhydroxyaminobutyric acid, as previously reported; even after 240 hrs. b., there was no addition of NH2OH. Styrole, stilbene, ω-bromo- and ω-chlorostyroles, allyl alc. and amylene do not add NH2OH. ω-Nitrostyrole after 1 hr. gives α-nitro-β-phenyl-β-hydroxylaminoethane, m. 99-100. It is also formed after several days in the cold. Cinnamic anhydride after 3/4 hr. gives the hydroxamoxime hydrate; on longer b., the amino acid. Cinnamamide and cinnamhydroxamic acid likewise gave the hydroxamoxime hydrate after 3/4 hr.;

the latter gave 2 other unstable products to be described later. Cinnamaldehyde in the cold or after 5 hrs. b. gives PhCH : CHC(: NOH)NH2. Cinnamaldehyde after 20 hrs. gives only the aldoxime; after 200 hrs., a substance richer in N, m. 205-6°. The formation of an aryl Me ketoxime having been noticed in some cases towards the end of the investigation, the reaction between PhCH : CHCO2H and NH3OH was again studied to see whether this phenomenon was general, and such seems to be the case. The acid (37 g.) is b. 10 hrs. with 0.5 l. N NH2OH solution in EtOH. On cooling, 7.7 g.of the amino acid seps. The mother liquors are evaporated almost to dryness, the residue taken up in 150 cc. Na2CO3 (about 0.66 N); 9.6 g. PhMeC: NOH seps. in milky form and soon solidifies to a crystalline mass.

IT 858217-76-2P, Hydrocinnamohydroxamic acid, α-benzamido-β-hydroxamino-
RL: PREP (Preparation)
(preparation of)

RN 858217-76-2 CAPLUS

CN Benzenepropanamide, α-(benzoylamino)-N-hydroxy-β-(hydroxyamino)- (CA INDEX NAME)



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